

**UNIVERSIDAD AUTÓNOMA DE MADRID**

**Departamento de Biología Molecular**



# **Bases genéticas de la respuesta radioadaptativa en timocitos de ratón**

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**Facultad de Ciencias**

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CERTIFICAN:

Que Don Manuel Malavé Galiana ha realizado el trabajo de tesis doctoral que lleva por título **“Bases Genéticas de la respuesta radioadaptativa en timocitos de ratón”** bajo nuestra dirección y supervisión.

Que, una vez revisado el trabajo, consideramos que éste tiene la debida calidad para su presentación y defensa.

Y para que así conste a los efectos oportunos firmamos la presente en Madrid a 13 de noviembre de 2014.

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***"El triunfo no está en vencer siempre, sino en nunca desanimarse". Napoleón (1769-1821)***



## RESUMEN

La respuesta radioadaptativa (RRA) es un mecanismo de defensa biológico donde la exposición a dosis bajas de radiación ionizante (RI) atenúa los efectos perjudiciales de las dosis altas. Dicha respuesta se ha demostrado utilizando diferentes indicadores, incluyendo la reducción en los niveles de inducción de apoptosis y de roturas de doble cadena en el ADN (DSBs). Sin embargo, los mecanismos moleculares de la RRA no se conocen en su totalidad. En este estudio, investigamos el efecto *in vivo* en los niveles de caspasa 3 proteolizada y la forma fosforilada de histona H2ax ( $\gamma$ H2ax) en timocitos de ratones machos y hembras C57BL/6, al administrar una dosis baja condicionante de rayos X (0,075 Gy), 6 horas antes de la irradiación con una única dosis alta de rayos  $\gamma$  (1,75 Gy). Nuestros datos demuestran una reducción significativa en los niveles de caspasa 3 proteolizada y  $\gamma$ H2ax en timocitos radioadaptados, cuando se comparan con los niveles encontrados en timocitos de ratones expuestos a una única dosis de 1,75 Gy, siendo esta reducción más acusada en machos. Dado que el gen *Trp53* es esencial en la regulación de la apoptosis y la formación de DSBs en respuesta a la RI, se investigó la expresión de *Trp53* y de dos de sus formas fosforiladas. La expresión de las proteínas *Trp53* y fosfoserina-18-*Trp53* fue más baja en timocitos radioadaptados que en los timocitos de ratones expuestos a una dosis única de 1,75 Gy. Sin embargo, se observaron los niveles más altos de fosfoserina-389-*Trp53* en timocitos de ratones expuestos a un régimen adaptativo de radiación, siendo estos incrementos más pronunciados en machos. Estos datos sugieren, por primera vez, la existencia de un efecto protector frente a la apoptosis y a la formación de DSBs en la respuesta radioadaptativa *in vivo*. Además, se observó un incremento en la expresión de p38Mapk en timocitos radioadaptados. No se detectaron cambios significativos en las cantidades de las proteínas Puma y Bax, ni tampoco en p21<sup>Cdkn1a</sup> entre tratamientos, sugiriendo que el efecto protector frente a la apoptosis y la formación de DSBs en la respuesta radioadaptativa ocurre por un mecanismo independiente de la capacidad transactivadora del gen *Trp53*. El análisis del perfil de expresión génica demostró que los ARNs no codificantes intergénicos de tamaño largo (lincRNAs) podrían tener un papel importante en la regulación de la respuesta adaptativa de los timocitos. Un resultado importante de este análisis es el descubrimiento de diferencias a nivel génico entre las respuestas radioadaptativas de ambos sexos.

**ABSTRACT**

Radioadaptive response (RAR) is a biological defense mechanism whereby exposure to low dose ionizing radiation (IR) mitigates the detrimental effects of high dose irradiation. RAR has been observed using various endpoints, including less induction of apoptosis and reduction of double-strand breaks (DSBs). However, molecular mechanisms of RAR are not fully known. Here, we investigated the *in vivo* effect of administering priming low dose X-irradiation (0.075 Gy) six hours prior to high dose  $\gamma$ -irradiation (1.75 Gy) on the levels of cleaved caspase 3 and phosphorylated form of histone variant H2ax ( $\gamma$ H2ax) in thymocytes of female and male C57BL/6 mice. Significant reduction in the amounts of cleaved caspase 3 and  $\gamma$ H2ax were observed in radioadapted thymocytes compared to thymocytes of mice exposed to 1.75 Gy or 0.075 Gy alone, and this reduction was more severe in males. Since the *Trp53* gene is essential in regulating induction of apoptosis and DSBs after exposure to IR, we investigated the expression of Trp53 and two key phosphorylated forms. Lowest expressions of Trp53 and phosphoserine-18-Trp53 were found in thymocytes of primed mice compared to those of non-primarily challenged mice. In contrast, highest accumulation of phosphoserine-389-Trp53 was observed in thymocytes exposed to a dose of 0.075Gy X-rays followed by 1.75Gy of  $\gamma$ -irradiation, being these increases more pronounced in males. These results suggest for the first time a protective effect against apoptosis and DSB formation for phosphoserine-389-Trp53 in radioadaptive response of mouse thymocytes. In addition, concomitant increased expression of activated-p38MAPK, which phosphorylates Trp53 at serine 389, was found in radioadapted thymocytes. Neither significant changes in the amounts of proapoptotic Puma and Bax proteins nor accumulation of the cell cycle inhibitor p21<sup>Cdkn1a</sup> were detected in our experimental conditions. These findings suggest that protection from thymocyte apoptosis in RAR occurs by a mechanism independent of *Trp53* target gene transactivation. The analysis of the genetic expression profile showed that the Large intergenic non-coding RNAs could have an important role in the regulation of the adaptive response of thymocytes. An important result of this analysis is the discovery of gene level differences between the adaptive responses of both sexes.

## ABREVIATURAS

**ADN:** Ácido desoxirribonucleico

**ADNc:** Ácido desoxirribonucleico complementario

**Akt/PkB:** del inglés “protein kinase B”

**Al:** Aluminio

**ARN:** Ácido ribonucleico

**ASK1:** quinasa reguladora de la señal apoptótica

**ATM:** del inglés “Ataxia telangiectasia mutated”

**BAX:** del inglés “Bcl2-associated X protein”

**Bcl2:** del inglés “B-cell lymphoma 2”

**BclXL:** del inglés “B-cell lymphoma-extra large”

**Be:** Berilio

**BEIR:** Efectos Biológicos de las Radiaciones Ionizantes

**Ccl24:** del inglés “Chemokine C-C motif ligand 24”

**CCNG1:** gen de la ciclina G1

**Cdc23:** del inglés “Cell division cycle 23”

**CDK9:** del inglés “Cyclin dependent kinase 9”

**Cdkn1a (p21):** del inglés “Cyclin-dependent kinase inhibitor 1A”

**CK2:** del inglés “Casein kinase II”

**Cxcl10:** del inglés “C-X-C motif chemokine 10”

**CXCR3:** del inglés “Chemokine (C-X-C motif) receptor 3”

**Dmc1:** del inglés “disrupted meiotic cDNA”

**Dna-Pk:** del inglés “DNA-dependent protein kinase”

**DSB:** del inglés “double strand brake”

**FAS (CD95):** del inglés Fas Cell Surface Death Receptor

**FC:** del inglés “Fold Change” (Tasa o ratio de cambio)

**FDR:** del inglés “False Discovery Rate”

**FE:** del inglés “FeatureExtraction”

**Fpr1:** del inglés “formyl peptide receptor 1”

**Gadd45 $\alpha$ :** del inglés “Growth Arrest and DNA Damage”

**Gy:** Grays

**H2ax:** del inglés H2A Histone Family, Member X

**HPRT (HGPRT):** del inglés “Hypoxanthine-guanine phosphoribosyltransferase”

**HR:** del inglés “homologous recombination”

**ICRP:** Comisión Internacional de Protección Radiológica

**IgG:** inmunoglobulina G

**IL1f9:** del inglés “interleukin-1 family member 9”

**KDa:** kilodalton

**Kv:** kilovoltios

**lincRNAs:** ARNs no codificantes intergénicos de secuencia larga

**LNT:** del inglés “Linear no-threshold”

**mA:** miliamperios

**Mdm2:** del inglés “Murine double minute 2”

**MGI:** del inglés “Mouse Genome Informatics”

**Mrc1:** del inglés “mannose receptor C type 1”

**NCBI:** del inglés “National Center for Biotechnology”

**NF-Kappa B:** factor nuclear potenciador de las cadenas ligeras kappa de las células B activadas

**NO:** radicales de óxido nítrico, del inglés “Nitric Oxide”

**Nod1:** del inglés “Nucleotide-binding oligomerization domain-containing protein 1”

**NYUMC:** del inglés “New York University Medical Centre”

**OICR:** del inglés “Ontario institute for Cancer Research”

**p38Mapk** (del inglés “p38 mitogen activated protein kinase”)

**Palb2:** de inglés “Partner and localizer of BRCA2”

**Parp:** del inglés “Poly (ADP-ribose) polymerase”

**PBS:** del inglés “phosphate-buffered saline”

**PI3K:** del inglés “phosphatidylinositol-3-kinases”

**PKB:** del inglés “protein kinase B”

**PKR:** del inglés “Protein kinase RNA-activated”

**Pp2A:** del inglés “protein phosphatase 2 A”

**Puma:** del inglés “P53 Up-regulated modulator of Apoptosis”

**PVDF:** del inglés “polyvinylidene fluoride”

**Rad51:** del inglés Rad51 Recombinase

**RI:** Radiación Ionizante

**RIN:** del inglés “RNA Integrity Number”

**RIPA:** del inglés “radioimmunoprecipitation assay buffer”

**RNS:** radicales libres de oxígeno, del inglés “Reactive Nitrogen Species”

**ROS:** radicales libres de nitrógeno, del inglés “Reactive Oxygen Species”

**RRA:** Respuesta radioadaptativa

**Sv:** sieverts

**TIGAR:** del inglés “TIP53-induced glycolysis and apoptosis regulator”

**TNF-R:** del inglés “Tumor necrosis factor-receptor”

**Trp53 (p53):** del inglés “Transformation related protein p53”

## INTRODUCCIÓN

### 1. Los genes de respuesta a la radiación ionizante: un regalo evolutivo

El ser humano está continuamente expuesto a bajos niveles de radiación ionizante (RI) procedente de diferentes fuentes (**Figura 1**): radiación cósmica, inhalación de gas radón, radionucleidos en alimentos y bebidas, etc (Grasty y LaMarre, 2004). La media anual de esta radiación recibida es de 2.4mSv (Comisión Internacional de Protección Radiológica, ICRP). Sin embargo, los niveles de RI que encontramos de forma natural en la Tierra actualmente no se corresponden en absoluto a los niveles que había en los primeros años de aparición de la vida en el planeta, en los que, los niveles de radiación natural eran mucho más elevados. Por esta razón los primeros organismos tuvieron que sobrevivir y adaptarse a dichas condiciones de radiación (Lenski et al., 2006).

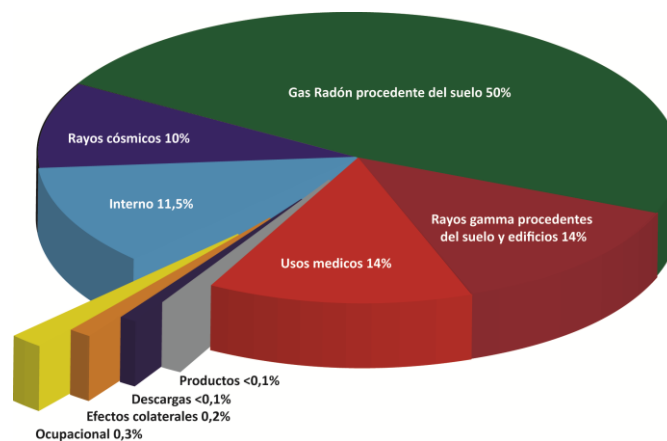


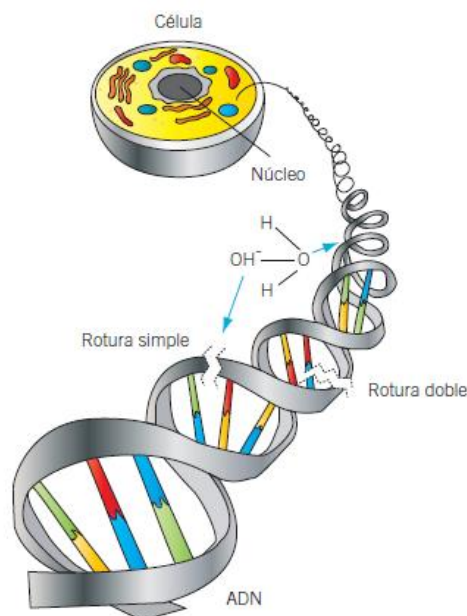
Figura 1. *Dosis anuales recibidas de fuentes naturales de radiaciones ionizantes*. Modificado a partir de una figura de la Fuente: "Living with Radiation", NRPB, 1998

Como consecuencia de ello, los organismos desarrollaron un sistema de protección natural frente a la radiación, denominado de "protección adaptativa". Este sistema incluye una serie de mecanismos de protección a la radiación que incluyen: producción de antioxidantes, reparación del ADN, inducción de apoptosis de las células severamente dañadas que elimina de forma selectiva las células aberrantes y precancerosas e inmunidad frente al cáncer. Dicho sistema de protección a la radiación está regulado por los genes de respuesta adaptativa a la RI (Scott et al., 2009). Estos genes se habrían adquirido y transmitido como consecuencia de la evolución, sufrida por las distintas especies de mamíferos (Lenski et al., 2006). Pese a que los niveles de

radiación natural actuales son mucho más bajos, el fenotipo de protección adaptativa podría ser activado de forma ocupacional o accidental por exposición a bajas dosis de radiación ionizante ( $<0.1\text{Gy}$ ), algo mayores a los niveles de radiación actuales, mimetizando las condiciones de radiación a las que estaban expuestos los organismos anteriormente y en consecuencia dando lugar a la activación de los genes de respuesta a la RI.

## 2. Bajas dosis de radiación ionizante y sus efectos biológicos

La RI es un conocido agente genotóxico y carcinógeno humano (Parkin y Darby, 2011). Los efectos más graves se producen a nivel de la molécula del ADN, que puede romperse por una de sus cadenas (“rotura simple”) o por las dos (“rotura doble”) (**Figura 2**). Estas roturas pueden producirse por el efecto directo de las radiaciones sobre la molécula de ADN o por un ataque secundario de un radicales libres, muy reactivos, conocidos como ROS (del inglés “Reactive Oxygen Species”) que se forman por la acción de la radiación sobre las moléculas de agua que circundan la molécula de ADN (radiolisis del agua) (Goldberg y Lehnert, 2002; Marnett et al., 2003).



**Figura 2. Lesiones en el ADN inducidas por la exposición a la radiación ionizante.** Fuente: “La protección radiológica en el medio sanitario, CSN, 2011

A diferencia de los efectos que se conocen como resultado de la exposición a dosis altas de RI, que demuestran que la *dosis efectiva* de radiación (medida en sieverts, Sv) por encima de 100 mSv (equivalente a una dosis absorbida, medida en grays (Gy) de 0,1 en el caso de los rayos X e irradiación  $\gamma$ ) es linealmente proporcional

al riesgo de padecer cáncer, no se sabe a ciencia cierta los riesgos asociados con bajas dosis ( $<0.1$  Gy) (de Brouwer y Lagasse, 2001). La aproximación en la estimación del riesgo a las bajas dosis de radiación, recomendada por el 7º Informe de Efectos Biológicos de las Radiaciones Ionizantes (BEIR) de la Academia Nacional de Ciencias de los EE.UU (2006) y por la Comisión Internacional en Protección radiológica (ICRP) (2006) consiste en la extrapolación del modelo lineal sin umbral (modelo LNT, del inglés “Linear no-threshold”) del riesgo a padecer cáncer a partir de los datos de dosis altas. El modelo LNT, que se desarrolló para estimar el riesgo de cáncer a partir de los datos epidemiológicos tomados de los supervivientes de las bombas atómicas (Pierce y Preston, 2000; Preston et al., 2004; Preston et al., 2007), implica que hay un incremento en el riesgo para la salud proporcional, a la dosis de radiación recibida hasta los niveles más bajos. El modelo supone que un incremento en la dosis que recibe un individuo conducirá a un incremento proporcional en el riesgo a padecer cáncer por muy baja que esta dosis sea, indicando que no hay un nivel seguro de exposición (**Figura 3**). El modelo asume también que no existe un umbral por debajo del cual no se produzca un incremento en el riesgo para la salud.

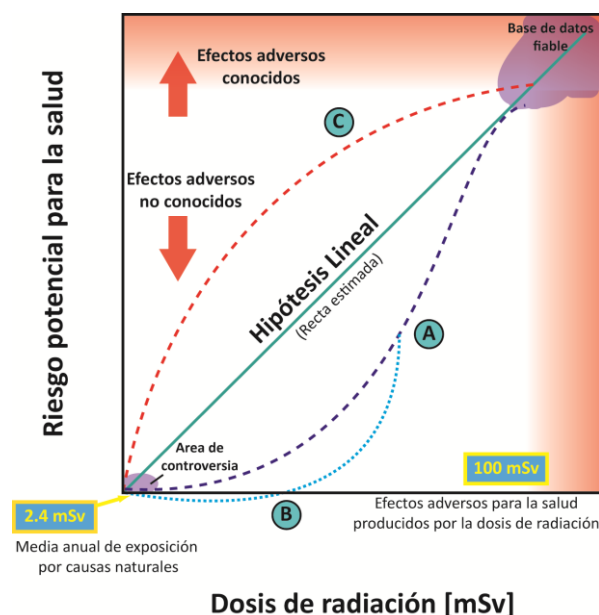


Figura 3. **Efecto de las bajas dosis de radiación en la salud y el Modelo Lineal sin Umbral.** Diferentes aproximaciones en la estimación del riesgo para la salud a las bajas dosis de radiación. A=Efecto radioadaptativo; B= Hormesis (Efectos beneficiosos para la salud de la exposición a dosis inferiores a la radiación natural de fondo); C= Efectos perjudiciales para la salud por la exposición a dosis inferiores a 100mSv). Modificado a partir de una figura del artículo de Oka, The Japan News 2011.



### 3. La respuesta radioadaptativa

Estudios previos han demostrado que la exposición a bajas dosis de radiación ( $<0,1$  Gy) puede inducir respuestas celulares que van desde la radio-resistencia a una hipersensibilidad a la RI, dependiendo del tipo de dosis baja utilizado (Mullenders et al., 2009). Este tipo de evidencias cuestionan la validez del modelo LNT a la hora de estimar el riesgo de cáncer inducido por la RI.

Uno de los fenómenos que invalida el modelo LNT es la *respuesta radioadaptativa*, definida como un mecanismo de defensa biológico inducido por el tratamiento con una dosis baja de radiación (*dosis condicionante*) que protege a las células contra los efectos perjudiciales de una exposición posterior a una dosis más alta (*dosis provocadora*). Este fenómeno radioprotector se demostró, por primera vez, por Wolff y colaboradores en 1984. Estos autores encontraron que los cultivos de linfocitos humanos tratados con timidina tritiada tenían un menor número de aberraciones cromosómicas cuando fueron sometidos a un tratamiento posterior con una dosis alta de rayos X (Olivieri et al., 1984). En células de mamífero, son necesarias dosis comprendidas entre los 0,01 Gy y los 0,2 Gy para inducir una respuesta radioadaptativa efectiva (Feinendegen, 1999), debiendo transcurrir 4-6 horas desde el final de primer tratamiento hasta el principio del segundo para que se pueda establecer dicha adaptación (Wojcik y Streffer, 1995).

En este tipo de células se han utilizado diferentes indicadores para demostrar la respuesta radioadaptativa que incluyen el análisis de aberraciones cromosómicas (Cai y Liu, 1990), la formación de micronúcleos (Azzam et al., 1994), el intercambio de cromátidas hermanas (Ikushima, 1989), la inducción de roturas de cadena doble y sencilla del ADN (Cramers et al., 2005), y la inducción de mutaciones en el locus HPRT (Hafer et al., 2007). También se ha demostrado que la respuesta radioadaptativa aumenta la supervivencia (Yonezawa et al., 1996) y reduce la incidencia de tumores (Ina y Sakai, 2005). En el ratón, la respuesta radioadaptativa se ha analizado también *in vivo* mediante una exposición de cuerpo completo a radiación de baja transferencia lineal (del inglés “low LET o low Linear Energy transfer”) (rayos X o rayos  $\gamma$ ), utilizando como indicador de análisis el nivel de apoptosis en células de bazo (Takahashi et al., 2001; Okazaki et al., 2007) .

#### 4. Mecanismos moleculares de la respuesta radioadaptativa

Conocer los mecanismos que gobiernan la respuesta radioadaptativa resulta fundamental a la hora de estimar el riesgo de cáncer en el rango de las bajas dosis. Aunque los mecanismos responsables de la respuesta radioadaptativa no se conocen en su totalidad, sí parece claro que se trata de un fenómeno molecularmente muy complejo en el que se ponen en marcha procesos relacionados con la captación de radicales libres de oxígeno (ROS) y de nitrógeno (RNS), la reparación del ADN y la apoptosis, a la vez que se produce una regulación del ciclo celular y una estimulación del sistema inmune. Estos procesos actúan de manera coordinada formando parte de los tres sistemas de defensa principales que componen la respuesta radioadaptativa: (i) protección contra ROS y RNS por moléculas antioxidantes (tales como glutatión) y enzimas neutralizantes de ROS y RNS (tales como catalasa y superóxido dismutasa), (ii) reparación del daño producido en el ADN, y (iii) eliminación de las células con daños severos en su ADN a través de la apoptosis y del sistema inmune (Matsumoto et al., 2009).

Es sabido que la transcripción y traducción de genes que participan en la maquinaria antioxidante (Cramers et al., 2005), en la reparación del ADN y en la regulación del ciclo celular son requisitos necesarios para el establecimiento de la respuesta radioadaptativa en linfocitos y fibroblastos humanos (Boothman et al., 1996). Se ha demostrado que los tratamientos con endonucleasas exógenas que generan roturas en el ADN son capaces de inducir la respuesta radioadaptativa, sugiriendo que el daño en el ADN es implicado en el establecimiento de dicha respuesta (Wolff, 1996). El uso de inhibidores de la proteína de reparación del ADN Parp (del inglés “Poly (ADP-ribose) polymerase”) producen un bloqueo de la respuesta radioadaptativa, implicando la participación de los procesos de reparación del ADN en la inducción de la radioadaptación (Guruprasad y Vasudev, 2001; Marples et al., 2004; Shadley et al., 1987). Por otro lado, los Inhibidores de la síntesis de proteínas pueden también bloquear la respuesta radioadaptativa, sugiriendo que la respuesta radioadaptativa requiere la síntesis *de novo* de proteínas (Kim et al., 1996; Youngblom et al., 1989). La mayoría de las proteínas que se sintetizan en respuesta al régimen adaptativo de radiación están implicadas en la respuesta al daño en ADN, incluyendo

enzimas antioxidantes (Bravard et al., 1999) y/o proteínas implicadas en la reparación del ADN (Szumiel, 1998).

El análisis del transcriptoma en células linfoblastoides humanas expuestas a una dosis condicionante de 0,05 Gy de rayos  $\gamma$ , administrada 6 horas antes de una dosis provocadora más alta de irradiación  $\gamma$  (2 Gy), demostró la existencia de diferencias notables en los perfiles de expresión transcripcional al compararlos con los de las exposiciones a una dosis única de radiación (Coleman et al., 2005). Según estos autores, los genes con expresión alterada se podían agrupar en dos grandes categorías. En un primer grupo estaban los genes asociados a los efectos de la dosis condicionante (0,05 Gy), pero eran independientes del establecimiento de la respuesta radioadaptativa. En este grupo, la función mayoritaria fue la síntesis *de novo* de proteínas y los genes asociados a esta función estaban sobre-expresados, Por el contrario, los genes que participan en procesos metabólicos o en la señalización intracelular mostraban una expresión reducida. En la segunda categoría se agrupaban aquellos genes que mostraban una expresión diferencial entre células radioadaptadas y no radioadaptadas. En las líneas celulares que mostraban una respuesta radioadaptativa se observaba la inducción de genes asociados con reparación del ADN y de respuesta al estrés celular, mientras aparecían con expresión disminuida aquellos genes implicados en el control del ciclo celular y la apoptosis. Muchos de los genes encuadrados dentro del segundo grupo, estaban asociados a su vez con funciones reguladas por la proteína Trp53 (del inglés “Transformation related protein p53”), resaltando la importancia del gen *Trp53* en el control de la respuesta radioadaptativa.

## **5. El papel del gen *Trp53* en el establecimiento de la respuesta radioadaptativa**

En el ratón, estudios llevados a cabo con células de bazo indican que la inducción de la respuesta radioadaptativa, medida como reducción en el porcentaje de células apoptóticas, requiere una respuesta mediada por el gen *Trp53* (Okazaki et al., 2007; Takahashi et al., 2001). Sin embargo, el papel de gen *Trp53* resulta controvertido, ya que en unos casos la reducción en los niveles de apoptosis se asociaba a una reducción en los niveles de expresión de Trp53 (Takahashi et al., 2001), mientras que en el otro estudio la respuesta radioadaptativa iba acompañada de un aumento significativo en los niveles de expresión de Trp53 (Okazaki et al., 2007). Por el contrario, en células de

bazo de ratón y fibroblastos embrionarios deficientes para *Trp53* expuestas a una dosis baja condicionante no se inducía una respuesta radioadaptativa, estimada también como una bajada en los niveles de apoptosis (Sasaki et al., 2002). Estas evidencias ponen de relieve que la inducción del gen *Trp53* es un requisito necesario en la inducción de la respuesta radioadaptativa, pero el mecanismo molecular por el que *Trp53* participa en esta respuesta está aún por aclarar.

Por el contrario, estudios *in vitro* llevados a cabo con células humanas portadoras de una mutación que inactivaba funcionalmente el gen *TRP53* demostraron que la exposición a una dosis condicionante de rayos  $\gamma$  protegía a estas células de la apoptosis, indicando que la respuesta radioadaptativa puede ocurrir, también, en ausencia del gen *TRP53* (Hendrikse et al., 2000). En esta línea, el análisis de la respuesta radioadaptativa en células de hámster chino, monitorizando la inducción de roturas de doble cadena (Ikushima et al., 1996), y en células humanas de origen hepático, utilizando como indicador la formación de micronúcleos (Yuan et al., 2010), descartan la implicación de *Trp53* en dicha respuesta. Estas evidencias indican que el tipo celular es un factor relevante en el establecimiento de la respuesta radioadaptativa mediada por el gen *Trp53*. Se ha sugerido que este comportamiento diferencial podría deberse, también, al uso de diferentes indicadores para estimar la respuesta radioadaptativa (Rigaud y Moustacchi, 1996).

Se ha descrito que la generación de radicales de óxido nítrico (NO) (del inglés “Nitric Oxide”) inducidos por la exposición a una dosis baja condicionante contribuyen a la inducción de radio-resistencia, medida como supervivencia celular, después de una exposición posterior a una dosis provocadora alta (Matsumoto et al., 2007). Más aún, los radicales NO secretados por células irradiadas y deficientes en *Trp53* inducen radio-resistencia en células no irradiadas y sin mutaciones en *Trp53*, mediante mecanismos de señalización intercelulares (Matsumoto et al., 2001; Matsumoto et al., 2000). Otros estudios muestran que la modulación de la expresión de la proteína Mdm2 (del inglés “Murine double minute 2”) después del tratamiento con radicales NO contribuye a la activación de *Trp53* (Wang et al., 2002). Estos resultados sugieren un nexo de unión entre el gen *Trp53* y los radicales NO en el inicio de la respuesta radioadaptativa.

## 6. La ruta de señalización mediada por el gen *Trp53* y la respuesta a la radiación ionizante

En respuesta a la radiación ionizante, la proteína supresora de tumores p53 (Trp53) codificada por el gen *Trp53*, se estabiliza y posteriormente se activa, induciendo distintos procesos celulares, como la parada del ciclo celular y la apoptosis, para preservar la integridad del genoma (Horn y Vousden, 2007). La exposición a la radiación induce modificaciones post-traduccionales en la proteína Trp53 en múltiples sitios, siendo la fosforilación la que contribuye de manera más relevante a su estabilización y activación (Loughery et al., 2014).

Uno de los primeros genes en activarse en respuesta a la radiación ionizante es *ATM* (del inglés *Ataxia telangiectasia mutated*) mediante la autofosforilación de su proteína (Atm) en la serina 1981 (serina 1987 en la de ratón), que causa la disociación de su forma dimérica inactiva (Bakkenist y Kastan, 2003). Esta inducción temprana de Atm se traduce en una rápida fosforilación de la proteína humana Trp53 en la serina 15 (Banin et al., 1998; Canman et al., 1998) y de la de ratón en la serina 18 (Chao et al., 2000), contribuyendo a la acumulación y estabilización de Trp53. La quinasa Atm lleva a cabo, también, la fosforilación de la histona H2ax en la serina 139, que es un evento importante en la respuesta de las células de mamífero a la aparición de roturas de doble cadena en el ADN, inducidas por la exposición a la radiación ionizante (Fernandez-Capetillo et al., 2004).

La serina 392 (serina 389 en el ratón) de Trp53 es otro sitio importante susceptible de ser fosforilado. Su fosforilación como consecuencia de la exposición a la radiación ionizante favorece la tetramerización de Trp53 (Sakaguchi et al., 1997) y potencia la capacidad de unión al ADN de Trp53 (Hupp et al., 1992) en condiciones *in vitro*. Estudios posteriores analizando modelos murinos en los que se ha sustituido este residuo por una alanina demuestran que la fosforilación de Trp53 en la serina 389 no resulta esencial para la activación de Trp53 como factor de transcripción (Kim et al., 2004).

La radiación ionizante también induce la expresión del gen *MDM2* de una manera dependiente de *TRP53* (Chen et al., 1994). La oncoproteína Mdm2 (es el

principal regulador negativo del gen *TRP53* (Freedman y Levine, 1999). La proteína Mdm2 (Hdm2 en el caso humano) puede ejercer su función inhibitoria de dos maneras: (i) uniéndose a la proteína Trp53 e interfiriendo su capacidad transactivadora (Thut et al., 1997) y (ii) promoviendo la degradación de Trp53 mediante la adición de ubiquitinas (Haupt et al., 1997; Honda et al., 1997), un proceso que requiere de la fosforilación de Mdm2 en la serina 166 (Meek y Knippschild, 2003). La ubiquitinización de Trp53 por Mdm2 permite, a su vez, la translocación de TP53 del núcleo al citoplasma donde es degradada (Freedman y Levine, 1998).

Por otro lado, la fosforilación de TP53 en la serina 15 (o serina 18 en el caso del ratón) es una respuesta temprana al daño en el ADN que contribuye a su estabilidad evitando la interacción con Mdm2 (Shieh et al., 1997). Sin embargo, Mdm2 se fosforila en la serina 166, también, poco después de la exposición a la radiación  $\gamma$  (Tichy et al., 2007) como parte probablemente del sistema de regulación mutua que existe entre las dos proteínas.

## **7. El gen *Trp53* participa en la apoptosis de timocitos inducida por la radiación ionizante**

El timo es uno de los tejidos más sensibles a la radiación ionizante. La exposición a una dosis sub-letal de 1,75 Gy de radiación  $\gamma$  causa la atrofia del timo de ratones C57BL/6 con una reducción significativa en el número de timocitos a las 24 horas de la finalización del tratamiento (Santos et al., 2009). El mecanismo responsable de esta atrofia del timo se asocia con la apoptosis de timocitos inmaduros inducida en respuesta a la radiación  $\gamma$  (Santos et al., 2009).

La apoptosis inducida por la radiación ionizante depende mayoritariamente del gen *Trp53* (Wang y Ohnishi, 1997). A su vez, el tipo celular es uno de los factores más importantes que participan en la determinación del tipo de señalización celular que Trp53 debe llevar a cabo después de la exposición a la radiación ionizante (Fridman y Lowe, 2003). Algunos tejidos, como el timo y el bazo, presentan niveles elevados de apoptosis mediada por *Trp53* (Midgley et al., 1995), pero los patrones de expresión de los genes inducidos por *Trp53* después de la exposición a la radiación ionizante son

claramente diferentes, sugiriendo la implicación de diferentes genes en la respuesta apoptótica dependiente de la activación de *Trp53* (Burns y El-Deiry, 2003).

Se ha demostrado que los timocitos murinos presentan niveles máximos de apoptosis en respuesta tanto a dosis altas (0,5-3 Gy) como bajas (0,075 Gy) de irradiación  $\gamma$  6 horas después de haber finalizados los tratamientos (Matsubara et al., 2000). Por el contrario, los ratones que habían recibido una dosis baja condicionante de rayos X (0,075 Gy), administrada 6 horas antes de una dosis provocadora radiación de 1-2 Gy de rayos  $\gamma$ , mostraban una reducción significativa en los niveles de apoptosis en comparación con la que presentaban los ratones expuestos únicamente a la dosis provocadora (Gong et al., 2000). Sin embargo, la relación entre esta respuesta radioadaptativa y la apoptosis mediada por *Trp53* en respuesta a un régimen adaptativo de radiación todavía no ha sido estudiada.

#### **8. La expresión génica como biomarcador de los efectos biológicos de la exposición a bajas dosis de radiación ionizante**

El nivel de expresión génica es un sensible biomarcador de exposición a la radiación ionizante, y ha sido utilizado para obtener información de los mecanismos moleculares inducidos por la exposición a bajas dosis de radiación en una amplia variedad de tipos celulares: células mieloides humanas, queratinocitos, linfocitos, células endoteliales umbilicales, células linfoblastoides y células madre mesenquimales (Wyrobek et al., 2011). La exposición a bajas dosis de radiación modula la expresión de un número considerable de genes que no se ven afectados después de la exposición a dosis altas, sugiriendo que los mecanismos de respuesta al daño celular después de las bajas dosis de radiación son cualitativamente diferentes a los mecanismos de las dosis altas (Lowe et al., 2009). Además, se ha demostrado que los efectos en los niveles de expresión global de una célula después de la exposición a bajas dosis de radiación ionizante dependen del modo en el que se ha llevado a cabo la exposición a la radiación (exposición aguda o crónica) y están influidos, también, por factores asociados al sexo (Kovalchuk et al., 2004).

## HIPOTESIS DE TRABAJO

La exposición de los timocitos de ratón a una dosis baja de rayos X (dosis condicionante), administrada con anterioridad a un tratamiento con una dosis alta de irradiación  $\gamma$  (dosis provocadora) induce una respuesta radioadaptativa.

La exposición de los timocitos de ratón al régimen adaptativo de radiación pone en marcha, de manera coordinada, distintos mecanismos de señalización intracelular que regulan el ciclo de división celular, activan los sistemas de reparación del daño producido en el ADN e inducen la apoptosis.

El gen *Trp53* juega un papel fundamental en el establecimiento de la respuesta radioadaptativa de los timocitos regulando, a nivel transcripcional o post-traducciona, los procesos biológicos que acabamos de mencionar. Sin embargo, podrían existir otras rutas de señalización intracelular que participen en la inducción de la radioresistencia de los timocitos expuestos al régimen adaptativo de radiación.

El efecto radioprotector inducido en los timocitos de ratón puede verse diferencialmente afectado por factores que están relacionados con el sexo.

## OBJETIVOS

El objetivo principal de este trabajo es la determinación de las bases genéticas que subyacen en el establecimiento de la respuesta radioadaptativa de los timocitos de ratón. Para llegar a este objetivo general se plantean los siguientes objetivos concretos:

1. Demostrar la existencia de un efecto radioprotector en los timocitos de ratones expuestos al régimen adaptativo de radiación ionizante.
2. Demostrar la implicación del gen *Trp53* en el establecimiento de la respuesta radioadaptativa de los timocitos de ratón.
3. Conocer los mecanismos moleculares a través de los cuales opera el gen *Trp53* en la respuesta radioadaptativa.
4. Determinar las singularidades del perfil de expresión génica en la respuesta radioadaptativa.
5. Evaluar el efecto del sexo en la determinación de la radiadaptación de los timocitos de ratón.



## MATERIALES Y METODOS

### 1. Ratones y protocolos de irradiación

Para la realización de los diferentes ensayos se utilizaron ratones machos y hembras de 5 semanas de la cepa C57BL/6 adquiridos a Charles River Laboratories International, Inc. Éstos fueron mantenidos en unas condiciones libres de patógenos, en cubetas de material plástico (policarbonato), en un régimen de luz de 7:00 a 19:00 y alimentados con una dieta estándar y agua de bebida ad libitum.

En este estudio se irradiaron ratones con distintos protocolos de radiación  $\gamma$ , generada con una fuente de  $^{137}\text{Cs}$  (Irradiador IBL-437C N.S 94-451, grupo TBS, 1994), y/o una de rayos X (Irradiador de Rayos X-Philips-MG-102, voltaje de 100Kv/15mA y filtros de 1mm de Be y 3mm de Al). Se agruparon en cuatro categorías según el tratamiento de radiación administrado a cada individuo:

1. Grupo control: ratones no expuestos a ningún tipo de tratamiento.
2. Grupo dosis fraccionada: ratones sometidos a un régimen adaptativo de radiación (1 x 0,075 Gy (tasa de dosis de 0,133 Gy/min) rayos X + 1 x 1,75 Gy rayos  $\gamma$  6 horas después). Dicho intervalo de 6 horas, entre ambas dosis de radiación, ha sido determinada en otros estudios de respuesta radioadaptativa a la radiación ionizante con timocitos (Gong et al., 2000)
3. Grupo dosis única alta: ratones irradiados con una única dosis de radiación  $\gamma$  de 1,75 Gy (tasa de dosis de 2,5 Gy/min).
4. Grupo dosis única baja: ratones expuestos a una única dosis baja de radiación X de 0,075Gy (0,133 Gy/min).

Después de la finalización de los tratamientos, el sacrificio de los ratones se realizó a las 2, 6 y 24 horas, siguiendo la normativa indicada para la protección de los animales utilizados para fines científicos, establecida por la Directiva del Parlamento Europeo y del Consejo del 22 de septiembre de 2010 (Directiva 2010/63/UE).

## 2. Extracción del timo y aislamiento timocitos

Tras el sacrificio se llevó a cabo la necropsia de los animales, extrayéndose el timo y disgregándolo mecánicamente, con PBS 1X, en un tamiz de 40 µm de nylon, sobre una placa de 35 mm de diámetro (BD Biosciences). Con la disgregación se separaron, por un lado las células del estroma del timo (quedando éstas retenidas sobre el tamiz), y por otro, los linfocitos T (los cuales quedaron suspendidos en PBS 1X).

## 3. Análisis de proteínas por “Western blotting”

Una vez precipitados los timocitos, se resuspendieron en el tampón de lisis celular RIPA (del inglés radioimmunoprecipitation assay) con inhibidores de proteasas e inhibidores de fosfatasa (Roche). De esta manera se extrajeron las proteínas totales.

Posteriormente, se analizó por “Western blot”, el nivel de expresión de la proteínas analizadas en este estudio en geles de gradiente, pre-fabricados de poliacrilamida del 4-15% (Mini-Protein® TGX™ precast Gels, BioRad) y se transfirieron a membranas de PVDF (Polyvinylidene fluoride, Millipore). Dichas membranas fueron incubadas con los anticuerpos primarios y a las diluciones indicadas en la **Tabla 1**

Anticuerpos primarios	Casa Comercial	Dilución Anticuerpo
Fosfo-p53 (Ser 392)	Cell Signaling	1/500
Fosfo-p53 (Ser 15)	Cell Signaling	1/500
p53	Cell Signaling	1/1000
Fosfo-p38 MAP quinasa (Thr180/Tyr182)	Cell Signaling	1/1000
Puma	Cell Signaling	1/1000
BAX	Cell Signaling	1/1000
Fosfo-p21 (Thr 145)	Santa Cruz	1/200
p21	Santa Cruz	1/1000
Caspasa-3 proteolizada (Asp 175)	Cell Signaling	1/1000
Fosfo-Histona H2A.X (Ser139) (γH2AX)	Cell Signaling	1/1000
PARP1	AbD Serotec	1/1000
DNA-PK	Abcam	1/1000
Fosfo-MDM2 (Ser 166)	Cell Signaling	1/500
Fosfo-Akt (Thr308)	Cell Signaling	1/1000
GADD45α	Cell Signaling	1/1000
Tigar	Novus	1/5000
FAS	Abcam	1/1000

Tabla 1. Descripción detallada de los anticuerpos empleados en los ensayos de “Western blot”, indicando la proteína detectada de acuerdo con las condiciones del fabricante.

Posteriormente, se incubaron las membranas con los anticuerpos secundarios anti-IgG de ratón (#7076; Cell Signaling) o conejo (#7074 Cell Signaling), conjugados con la peroxidasa de rábano, a una dilución 1/1000.

La proteína de control de carga escogida fue la  $\beta$ -actina, y para su detección se utilizó el anticuerpo monoclonal anti- $\beta$ -actina (A 5316; Sigma), a una dilución 1/5000.

Las membranas fueron reveladas con Western Bright™ ECL (K-12045-D50; Advansta), y para ello se utilizó el aparato Image Quant LAS 4000 mini (GE Healthcare). Finalmente, para cuantificar la cantidad relativa de proteínas se densitometraron las bandas visualizadas, con el programa informático de Scion Image (Scion Corporation).

Las cantidades de cada proteína se normalizaron con respecto a los valores obtenidos para la  $\beta$ -actina en la muestra correspondiente. Estos valores se volvieron a normalizar con respecto a los de su situación control.

#### **4. Estudio de los niveles de apoptosis**

La detección y cuantificación de la apoptosis se realizó estimando por “Western blotting” las cantidades de la forma proteolizada de caspasa 3, que es un buen indicador de la inducción de la apoptosis (Stennicke et al., 1998)

#### **5. Análisis estadístico**

Primero, para comparar los valores normalizados de expresión de proteínas entre los grupos experimentales, se utilizaron tests de one-way ANOVA, y con comparaciones post-hoc con el test de Bonferroni. En segundo lugar, para valorar la fuerza y la dirección de las asociaciones entre los valores de expresión de los genes estudiados, se calcularon coeficientes de correlación de Pearson y su significación estadística. Todos estos análisis se estratificaron por sexo (macho/hembra) y se llevaron a cabo con el programa R (R Core Team, 2014. R: a language and environment for statistical computing. R Foundation for Statistical Computing. Vienna, Austria. URL: <http://www.R-project.org/>).

## 6. Análisis de micromatrices de ADNc

Para realizar los análisis genéticos a nivel del transcriptoma, se extrajo el ARN total de timocitos de ratones machos y hembras C57BL/6 tratados con distintos protocolos de radiación anteriormente descritos.

Para ello, se realizó primero una extracción orgánica (MaXtract Kit, QIAGEN), seguida de una purificación en columna cromatográfica (RNeasy Mini Kit, QIAGEN). De esta manera, obtuvimos un ARN de alta calidad.

Posteriormente, para el análisis de la expresión génica se utilizó una micromatriz de ADNc de expresión (Agilent Technologies), cuyas especificaciones están en <http://www.genomics.agilent.com/CollectionOverview.aspx?PageType=Application&SubPageType=ApplicationOverview&PageID=103>.

## 7. Análisis de expresión génica mediante Micromatriz de ADNc de dos colores

Brevemente, el protocolo que se ha seguido en esta micromatriz de ADNc de expresión es el siguiente:

- Todas las muestras analizadas presentaban valores altos de integridad del ARN ( $RIN \geq 8$ ), calculadas con el Bioanalizador Agilent 2100.
- Para la obtención del ADNc de cada muestra se utilizaron 100ng ARN, utilizando el kit comercial "Two-Color -Based Gene Expression Analysis (Low Input Quick Amp Labeling) version 6.5", siguiendo las instrucciones descritas en el kit suministrado por Agilent .
- Los ADNc marcados (300ng/50µl) se hibridaron contra los ADNc presentes en la micromatriz "Mouse Gene Expression G3 60K" (Agilent design ID 028005, P/N G4852A), utilizando una cámara de hibridación SureHyb (Agilent) a una temperatura de 65°C durante 17 horas.
- La cuantificación de las muestras se llevó a cabo en el escáner "G2505C DNA microarray scanner" (Agilent). Las imágenes generadas fueron analizadas utilizando el Software "Agilent Feature Extraction Software", que lleva a cabo una cuantificación con correcciones aditivas de la expresión.

- Los resultados obtenidos en los procedimientos anteriores dan como resultados tres tipos de datos: a) archivos de imagen en formato TIFF generados en el proceso de escaneo; b) Imágenes de baja resolución “false-color” en formato JPG; c) datos en formato txt donde se encuentran los valores de cuantificación.

- Los datos de expresión procedentes de las imágenes de hibridación fueron procesados con los programas informáticos “Agilent FeatureExtraction (FE)” y “GeneSpring GX12”, donde se llevó a cabo una normalización “Lowess Global”. Esta normalización, que es la que se aconseja en este tipo de análisis, se llevó a cabo realizando una transformación logarítmica en base 2 de la proporción entre la señal de la muestra y la que se utilizó como referencia (RNA pool, Stratagene), lo cual permite el uso posterior de análisis paramétricos para la comparación de los niveles de expresión. Este procesamiento final da como resultado una matriz de datos normalizados listos para ser analizados estadísticamente. En la **Tabla 2** se muestra una visión parcial de la matriz original de los datos (10 regiones).

Identificador del gen en la micromatriz	SEXO																	
	HEMBRA									MACHO								
	DOSIS																	
	C	C	C	AD	AD	AD	RRA	RRA	RRA	C	C	C	AD	AD	AD	RRA	RRA	RRA
A_55_P2032167	-7,76	-9,40	-9,27	-3,57	-3,90	-3,62	-4,03	-3,16	-4,24	-7,98	-8,40	-9,16	-3,36	-3,01	-3,27	-1,68	-3,28	-4,17
A_51_P212782	0,44	0,82	0,66	5,81	5,61	5,75	4,97	5,47	6,23	0,29	0,19	0,14	5,72	5,98	6,26	6,11	5,33	4,63
A_51_P488739	-3,51	-1,77	-3,91	2,08	1,69	2,22	4,72	4,28	5,47	-2,02	-3,69	-1,95	1,08	1,78	2,14	4,83	4,98	4,16
A_51_P473170	0,08	0,27	0,09	4,87	5,07	5,31	5,20	3,39	2,94	-0,03	-0,23	0,06	5,23	4,34	4,99	5,48	6,16	4,96
A_51_P401907	0,84	1,19	-0,54	4,82	4,72	5,00	5,10	4,72	2,91	0,71	1,19	0,05	4,61	3,39	5,34	5,86	6,20	3,45
A_55_P2114342	0,09	-0,04	0,10	4,34	4,44	4,39	3,42	4,66	2,53	0,27	0,05	0,07	3,95	3,81	4,58	3,37	3,37	3,40
A_51_P383032	-5,52	-5,46	-5,59	-1,21	-1,72	-1,56	0,94	0,91	1,26	-5,30	-6,11	-5,72	-1,53	-1,30	-0,91	1,64	1,59	0,55
A_51_P436652	-5,06	-5,82	-5,94	-1,25	-1,88	-1,71	1,11	1,56	2,04	-5,41	-5,50	-5,65	-1,42	-1,79	-0,85	2,56	2,34	1,85
A_55_P1982890	4,51	3,77	3,06	1,02	-1,72	0,19	-0,25	-0,41	-0,10	4,67	4,25	3,32	-0,93	0,48	-1,45	-0,27	-1,12	1,27
A_55_P1971889	-6,16	-5,70	-7,98	-2,07	-2,75	-3,23	-2,64	-1,60	-2,27	-6,89	-6,59	-5,97	-2,05	-1,87	-2,14	1,05	-1,24	-1,61

Tabla 2. *Ejemplo de los datos obtenidos para 10 regiones tras la normalización de los datos brutos de la micromatriz de Expresión.* identificador del gen en la micromatriz; C= Control; AD= Dosis alta; RRA=dosis de respuesta radioadaptativa.

Tras el procesamiento de la información, se realizó una búsqueda en distintas bases de datos de los genes anotados en la micromatriz de Agilent, utilizando herramientas bioinformáticas (Scott Melville (2014). NCBI2R: NCBI2R-An R package to navigate and annotate genes and SNPs. R package version 1.4.6.<http://CRAN.R-project.org/package=NCBI2R>) y la información facilitada por “Agilent” donde se identificaron genes asociados, con el objetivo de obtener una breve descripción de la

función y rutas asociadas. A modo de ejemplo, se muestran los resultados del proceso de búsqueda de información para seis genes (**Tabla 3**).

Identificador del gen en la micromatriz	GenbankAccession	UniGeneID	EntrezGeneID	GeneSymbol	GeneName	EnsemblID	TIGRID
A_30_P01020025							
A_55_P1975685	NM_028334	Mm.222184	69736	Nup37	nucleoporin 37	ENSMUST00000169309	TC1578794
A_55_P2330977	NR_033620	Mm.261800	257924	Olfr947-ps1	olfactory receptor 947, pseudogene 1		TC1595154
A_30_P01019754							
A_55_P1953382	NM_023741	Mm.46090	74188	Prl8a8	prolactin family 8, subfamily a, member 81	ENSMUST00000018016	TC1593322
A_30_P01028583							

*Tabla 3. Ejemplo de los resultados del proceso de búsqueda en bases de datos para seis genes procedentes de la micromatriz de expresión. Identificador del gen en la micromatriz. Genbank Accesion, UniGeneID, EntrezGeneID, EnsemblIDy TIGRID= Identificador del gen en las distintas bases de datos. Gene SybmboI= Símbolo del Gen, Gen= Nombre del gen.*

## 8. Análisis estadístico

La identificación de genes con expresión diferencial entre el régimen adaptativo de radiación y la exposición a una dosis alta de irradiación  $\gamma$ , se llevó a cabo mediante una aproximación “gene-by-gene”, donde se ignora las dependencias entre genes. Existen distintas aproximaciones estadísticas para realizar dicha identificación. El método más sencillo es seleccionar aquellos genes utilizando el criterio de FC (del inglés “Fold-Change”) entre las expresiones en las dos condiciones analizadas. En este caso, las dos condiciones de exposición a la radiación anteriormente mencionadas. Un análisis solo basado en este criterio no tiene en cuenta las posibles diferencias derivadas de la variabilidad biológica y experimental, que pueden ser muy distintas entre los genes. Por ello, se suelen acompañar de algún tipo de análisis estadístico, ya sea paramétrico (t-test), bajo las asunciones de normalidad de los valores, o análisis estadísticos no paramétricos (Mann-Whitney), que aunque tienen menos restricciones en cuanto a asunciones matemáticas, requieren mayores tamaños muestrales para detectar diferencias. Por todo esto, y dado que los datos de expresión de los micromatriz de ADNc se procesan normalizándolos, se suelen emplear análisis estadísticos paramétricos, tomando los *P*-valores resultantes de los análisis con

cautela. Además, en experimentos a gran escala existen un gran número de medidas donde los eventos aleatorios son frecuentes, por lo que normalmente se introducen correcciones por comparaciones múltiples en los resultados.

Una de las estrategias más comunes de análisis consiste en los t-test moderados utilizando el método empírico de Bayes, que favorece que los resultados sean más estables y se mejore el poder estadístico. Este método consiste en moderar los errores estándar estimados de acuerdo con los desarrollos explicados en el artículo de Smyth (Smyth, 2005).

El proyecto Bioconductor (<http://www.bioconductor.org/>) proporciona herramientas para el análisis y compresión de datos genómicos a gran escala. A su vez, la librería LIMMA (Smyth 2004; Smyth *et al.* 2005; Hahne *et al.* 2008) para el software de R (R Development Core Team, 2011) posee una serie de funciones para poder llevar a cabo estos análisis de t-test moderados así como correcciones por comparaciones múltiples.

En relación con dichas correcciones, se suele emplear el método desarrollado por Benjamini-Hochberg (Green y Diggle, 2007). Los *P*-valores corregidos por este método de los test estadísticos, es equivalente a la corrección FDR (del inglés “False Discovery Rate”).

Los análisis estadísticos de los datos procedentes de la micromatriz de ADNc de expresión de esta tesis doctoral, se llevaron a cabo mediante t-test moderados con corrección por comparaciones múltiples de Benjamini-Hochberg, utilizando las funciones de la librería LIMMA, comparando los niveles de expresión para la respuesta radioadaptativa y la exposición a una dosis alta de 1,75Gy de rayos  $\gamma$ , teniendo en cuenta la diferencias con sus controles. Para considerar un gen como diferencialmente expresado, debía presentar un  $FC \geq 1,5$  y un *P*-valor corregido por comparaciones múltiples en el t-test-moderado  $\leq 0,05$ .

Todos estos análisis se llevaron a cabo en tres fases conforme a los objetivos de la tesis doctoral.

- Fase 1: En primer lugar, se analizaron aquellos genes cuyos procesos estuvieran relacionados con las funciones biológicas del gen *Trp53*.
- Fase 2: Posteriormente, se analizaron los lincRNAs (ARNs no codificantes intergénicos de secuencia larga), éstos juegan un papel importante en la regulación de la expresión génica a distintos niveles, incluyendo la modificación de la cromatina, a nivel transcripcional y post-traducciona, en los procesos de diferenciación y desarrollo (Mercer *et al.* 2009; Wilusz *et al.* 2009)
- Fase 3: Por último, se analizaron aquellos genes que no habían sido seleccionados en la Fase 1, para el establecimiento de futuras hipótesis de trabajo.

En la Fase 1, se llevó a cabo una preselección de los genes a analizar conforme a los siguientes criterios: a) genes relacionadas con la reparación de ADN; b) genes relacionadas con la apoptosis; c) genes relacionadas con el ciclo celular. Para llevar a cabo esta preselección se acudieron a listados cerrados de genes recopilados en la literatura en relación con cada uno de los puntos descritos.

En la Fase 2, se llevó a cabo una selección de las regiones lincRNA analizadas en la micromatriz de ADNc de expresión, utilizando el campo de “Descripción” generado en la anotación de la base de datos de la micromatriz.

En la Fase 3 se seleccionaron todas aquellas regiones localizadas en genes conocidos que no se hubieran escogido en la Fase 1. Para ello se utilizó el campo “Gen” de la anotación de la base datos de la micromatriz.

Todos los análisis se llevaron a cabo por separado en machos y hembras, para poder detectar posibles interacciones relacionadas con el sexo, y los resultados se muestran en tablas con un número representativo de genes diferencialmente expresados por análisis donde están ordenadas de mayor a menor FC.

De cada una de los genes diferencialmente expresados en la Fase 1 y en la Fase 3, se ha realizado una búsqueda en bases de datos para describir con más detalle su función. Estas bases de datos son: NCBI-Gene (National Center for Biotechnology Information, <http://www.ncbi.nlm.nih.gov/gene>), Genecards (Crown Human Genome Center at the Weizmann Institute of Science in Israel; <http://www.genecards.org>), MGI



(Mouse Genome Informatics, <http://www.informatics.jax.org/>) y Reactome (Ontario Institute for Cancer Research (OICR), New York University Medical Centre (NYUMC) y European Bioinformatics Institute (EBI); <http://www.reactome.org/>).

Todos los análisis estadísticos se han llevado a cabo utilizando el Software R (R Core Team, 2014. R: a language and environment for statistical computing. R Foundation for Statistical Computing. Vienna, Austria. URL: <http://www.R-project.org/>).

## RESULTADOS

### A. Papel del gen *Trp53* en la respuesta radioadaptativa de los timocitos de ratón

El estudio de la respuesta radioadaptativa se realizó en timocitos de ratones C57BL/6 de ambos sexos expuestos a una dosis condicionante de 0,075 Gy de rayos X seis horas antes de la exposición a una dosis provocadora de 1,75 Gy de radiación  $\gamma$  (tratamiento al que nos referiremos a partir de este momento como régimen adaptativo de radiación), midiendo sus efectos sobre la inducción de apoptosis y la aparición de roturas de doble cadena en el ADN. De manera paralela, este análisis se llevó a cabo en ratones tratados con una dosis única de 0,075 Gy de rayos X o de 1,75 Gy de rayos  $\gamma$ , con objeto de definir posibles efectos diferenciales entre el régimen adaptativo de radiación y los tratamientos con una dosis única.

Para demostrar la posible implicación de gen *Trp53* en el establecimiento de la respuesta radioadaptativa, estudiamos los niveles de expresión proteica de Trp53, así como los niveles de fosforilación de dos residuos claves en la activación de Trp53: la serina 18 y la serina 389. Asimismo, analizamos distintas proteínas codificadas por genes relacionados con su ruta de señalización para profundizar en el mecanismo molecular por el que Trp53 induce dicha radio-resistencia.

#### A.1. Los niveles de apoptosis inducidos por una dosis sub-letal de 1,75 Gy de rayos $\gamma$ fluctúan a lo largo del tiempo en timocitos de ratones C57BL/6

En trabajos previos realizados por nuestro grupo se puso de manifiesto que la exposición a una dosis sub-letal de 1,75 Gy de rayos  $\gamma$  en ratones de la cepa C57BL/6 era capaz de provocar una atrofia del timo con una reducción significativa en el número de timocitos a las 24 horas de la finalización de la exposición a la radiación (Santos et al., 2009). El mecanismo responsable de esta atrofia del timo se asociaba con la apoptosis de timocitos inmaduros inducida en respuesta a la irradiación con rayos  $\gamma$  (Santos et al., 2009). En respuesta a dosis altas de radiación (1,75 Gy), así como también en el rango de las bajas dosis como en el de las altas (3 Gy), los niveles de la apoptosis inducida por la irradiación  $\gamma$  en los timocitos con fondo genético de la cepa C57BL/6 fluctúan dentro de un periodo de tiempo que va de unas pocas horas a las 24 horas con niveles máximos a las 6 horas después de que el tratamiento haya concluido

(Matsubara et al., 2000). En el timo de ratón, la apoptosis inducida por dosis altas de irradiación  $\gamma$ , estimada a través de los niveles de la forma proteolizada de la caspasa 3 (caspasa 3 activa), es enteramente dependiente del gen *Trp53*, ya que está respuesta apoptótica no se induce en ratones deficientes en *Trp53* (Erster et al., 2004).

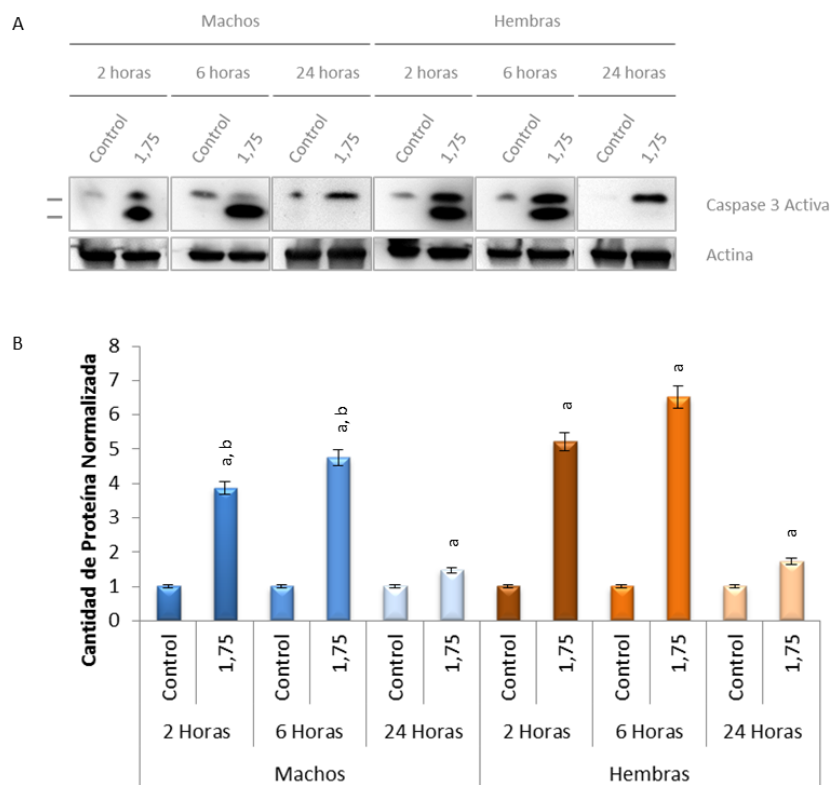


Figura 4. **Los niveles de apoptosis inducidos por una dosis sub-lethal de 1,75 Gy de rayos  $\gamma$  fluctúan a lo largo del tiempo en timocitos de ratones C57BL/6** **A**, "Western blot" representativo de la proteína Caspasa 3 Activa (fragmentos de 17 y 19 kDa) a las 2, 6 y 24h de la finalización del tratamiento. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto a su control. **B**, Análisis comparativo de los niveles normalizados de Caspasa 3 Activa correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de 1,75 Gy con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy entre machos y hembras.

Por tanto, lo primero que hicimos fue averiguar si los niveles de Caspasa 3 activa se mantenían constantes o sufrían, también, variaciones a lo largo del tiempo en los timocitos de ratones expuestos a una dosis de 1,75 Gy de rayos  $\gamma$ . Para ello, determinamos los niveles de expresión de esta a las 2, 6 y 24 horas después de finalizados la exposición a la radiación. Aunque se detectaron aumentos significativos en la cantidad de caspasa 3 activa ya a las 2 horas, las cantidades máximas de esta proteína se encontraron a las 6 horas, siendo estos incrementos significativamente más altos en las hembras que en los machos (**Figura 4**). A partir de las 24 horas se observó una reducción notable en los niveles de caspasa 3 activa, desapareciendo, además, las diferencias entre sexos.

## **A.2. Respuesta adaptativa de los timocitos frente a la apoptosis inducida por una dosis de 0.075 Gy de rayos X en ratones C57BL/6**

Una vez definido el tiempo donde se observan los niveles máximos de apoptosis, se analizaron las cantidades de caspasa 3 activa en los timocitos de ratones C57BL/6 expuestos a un régimen adaptativo de radiación. A las 6 horas de la finalización del tratamiento, se detectaron disminuciones notables en las cantidades de caspasa 3 activa en los timocitos radioadaptados en comparación con las encontradas en timocitos de ratones expuestos a una dosis única de rayos X (0,075 Gy) o de rayos  $\gamma$  (1,75 Gy) (**Figuras 5A y 5B**). De nuevo, dicha reducción fue más acusada en los machos que en las hembras. Estos resultados indican claramente que la respuesta radioadaptativa que protege a los timocitos de la apoptosis se ve afectada por factores asociados al sexo.

Para confirmar estos resultados se llevó un análisis de las cantidades de la proteína Parp (del inglés “Poly (ADP-Ribose) Polymerase”) y de su forma proteolizada, que es cortada por la caspasa 3 activa durante el proceso apoptótico (Kaufmann et al., 1993) 6 horas después de haber finalizado los tratamientos. Comparado con la situación control, se detectaron fuertes aumentos en la forma proteolizada de Parp en todas las condiciones experimentales estudiadas. Estos incrementos fueron menores en el caso de los timocitos radioadaptados y, a diferencia de lo observado con la caspasa 3 activa, no se apreciaron variaciones significativas entre ambos sexos (**Figuras 5A y 5C**). Estos datos vienen a confirmar el efecto protector que el régimen adaptativo de radiación ejerce sobre la inducción apoptosis en los timocitos de ratones C57BL/6.

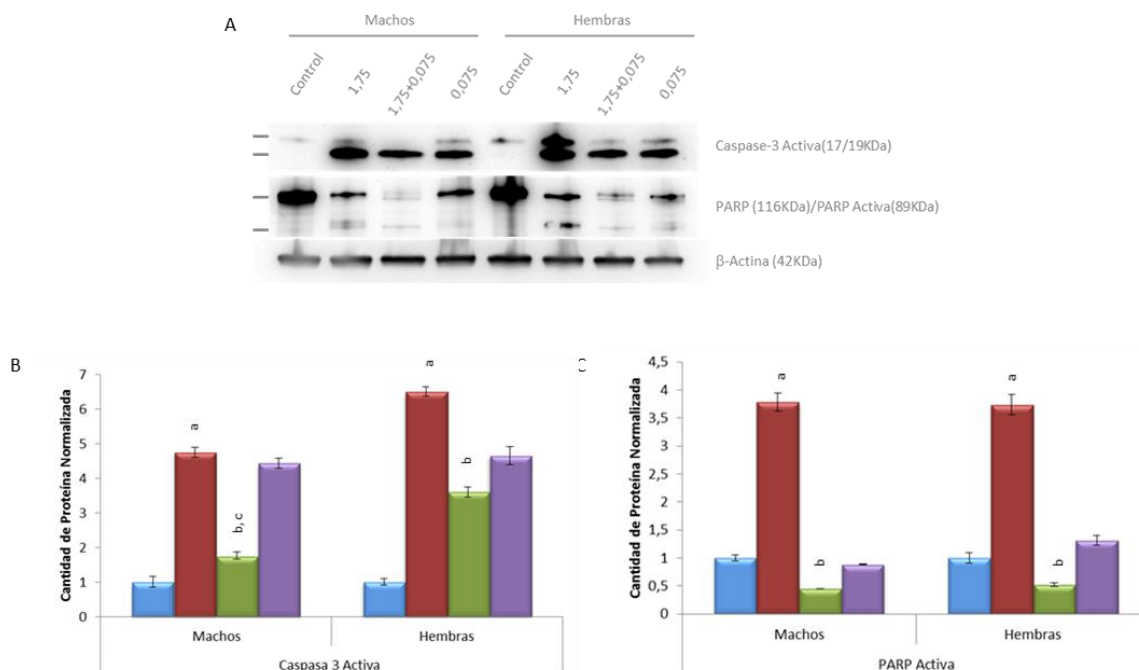


Figura 5. **Respuesta adaptativa de los timocitos frente a la apoptosis inducida por una dosis de 0.075 Gy de rayos X en ratones C57BL/6.** A, "Western blot" representativo de las proteínas Caspasa 3 Activa (fragmentos de 17 y 19 kDa), de PARP (116 Kda) y su forma proteolizada (85 KDa) a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su β-actina y a su vez respecto de su control. Análisis comparativo de los niveles normalizados de Caspasa 3 Activa (B) y PARP proteolizada (C) correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de 1,75 Gy con el control; <sup>b</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>c</sup> comparando la respuesta radioadaptativa entre machos y hembras.

### A.3. La dosis condicionante de irradiación X reduce la formación de roturas de doble cadena en el ADN en los timocitos de ratones C57BL/6

Después de demostrar la existencia de una respuesta radioadaptativa utilizando como indicador los niveles de apoptosis, nos preguntamos si dicha respuesta podría tener algún efecto sobre la inducción de roturas de doble cadena en el ADN ocasionadas como consecuencia de la exposición a la radiación. Para ello medimos las cantidades de la proteína  $\gamma$ H2ax en nuestras condiciones experimentales. En comparación con los niveles basales, las cantidades más altas de  $\gamma$ H2ax se encontraron en timocitos de ratones expuestos a una dosis alta (1,75 Gy) de rayos  $\gamma$ , mientras que en las de los timocitos radioadaptados las cantidades de  $\gamma$ H2ax disminuyeron incluso por debajo de las observadas en las exposiciones con una dosis baja de rayos X (Figuras 6A y 6B). Además, las cantidades de  $\gamma$ H2ax en timocitos de machos expuestos al régimen adaptativo de radiación fueron notoriamente más bajas que en el caso de las hembras. Por tanto, una dosis baja condicionante de 0.075 Gy, administrada en el

contexto de un régimen adaptativo de radiación lejos de tener un efecto acumulativo en la inducción de roturas de doble cadena en el ADN, protege a los timocitos radioadaptados de la aparición de las mismas.

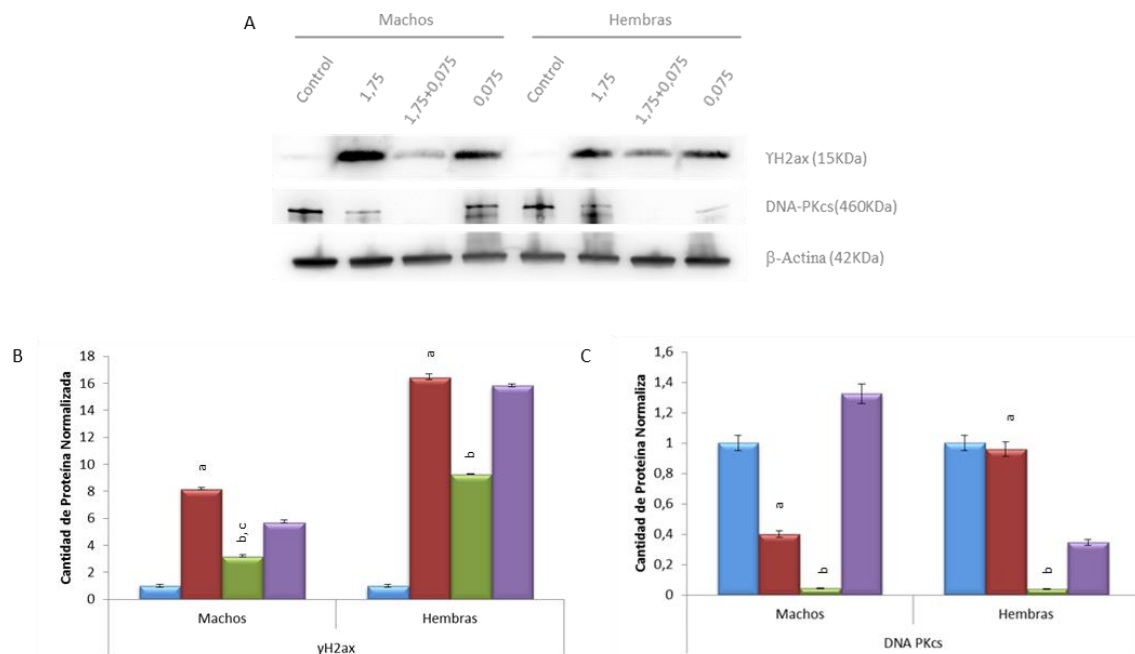


Figura 6. **La dosis condicionante de irradiación X reduce la formación de roturas de doble cadena en el ADN en los timocitos de ratones C57BL/6.** A, "Western blot" representativo de las proteínas  $\gamma$ H2ax (15 kDa) y de DNA-PKcs (460 kDa) a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto de su control. Análisis comparativo de los niveles normalizados de  $\gamma$ H2ax (B) y DNA-PKcs (C) correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de 1,75 Gy con el control; <sup>b</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>c</sup> comparando la respuesta radioadaptativa entre machos y hembras.

Para comprobar esta hipótesis, analizamos los niveles de expresión de la subunidad catalítica de la Dna-Pk (Dna-Pkcs), una serina/treonina quinasa de unión al ADN que se activa específicamente en respuesta a la aparición de roturas de doble cadena en el ADN (Lees-Miller et al., 1992). Dicho análisis reveló unos niveles de Dna-Pkcs prácticamente indetectables en los timocitos de los ratones expuestos al régimen adaptativo de radiación (**Figuras 6A y 6C**), confirmando el efecto protector de la dosis condicionante (0,075 Gy) de rayos X sobre la formación de roturas de doble cadena en el ADN inducida por la exposición a la dosis provocadora (1,75 Gy) de rayos  $\gamma$ .

Trabajos previos publicados por otros autores apuntan a una relación entre el nivel de daño en el ADN y la inducción de apoptosis después de la exposición a la radiación ionizante (Muslimovic et al., 2009). En base a estas evidencias, nos planteamos demostrar si existía una asociación entre la reducción de los niveles de

apoptosis y el bajo nivel de daño en el ADN encontrados en la respuesta radioadaptativa. Nuestros datos demuestran claramente que existe una fuerte correlación con una asociación lineal significativa entre las cantidades de caspasa 3 activa y  $\gamma$ H2Ax en timocitos radioadaptados tanto de machos ( $r=0.9997$ ,  $t=42,7852$ ,  $df=1$ ,  $P=0,014$ ) como de hembras ( $r=0.9998$ ,  $t=62.0382$ ,  $df=1$ ,  $P=0,01$ ), indicando que la relación entre nivel de daño en el ADN e inducción de apoptosis se mantiene después de la exposición al régimen adaptativo de radiación en los timocitos de ratones C57BL/6.

#### **A.4. La exposición a una dosis sub-letal de 1,75 Gy de rayos $\gamma$ provoca una rápida fosforilación de Trp53 en la serina 18**

La proteína Trp53 es un factor de transcripción con un tiempo de vida media corto que se mantiene a niveles muy bajos en células que no han recibido ningún tipo de estrés, pero llega a ser muy estable después de su inducción por estrés genotóxico (Giaccia y Kastan, 1998). En respuesta a las roturas de doble cadena en el ADN inducidas por la radiación ionizante, la fosforilación de la proteína humana TRP53 en la serina 15 (serina 18 en el caso de la proteína Trp53 de ratón) es un evento temprano que contribuye a su estabilización, inhibiendo su interacción con MDM2 (Shieh et al., 1997). Los niveles de TRP53 y su forma fosforilada en la serina 15 no permanecen estables después de su inducción sino que decaen con el tiempo (Shieh et al., 1997; Unger et al., 1999) La fosforilación de TRP53 en la serina 392 (serina 389 en el caso de la de ratón) ocurre, también, poco tiempo después de la exposición a la radiación ionizante logrando su máxima expresión entre las 4 y las 6 horas post-irradiación (Tichy et al., 2007).

Teniendo presente estas evidencias, nos planteamos investigar como evolucionaban los niveles de expresión de Trp53, fosfoserina-18-Trp53 y fosfoserina-389-Trp53 transcurridas 2, 6 y 24 horas de la exposición a una dosis sub-letal de 1,75 Gy de rayos  $\gamma$  (**Figura 7**).

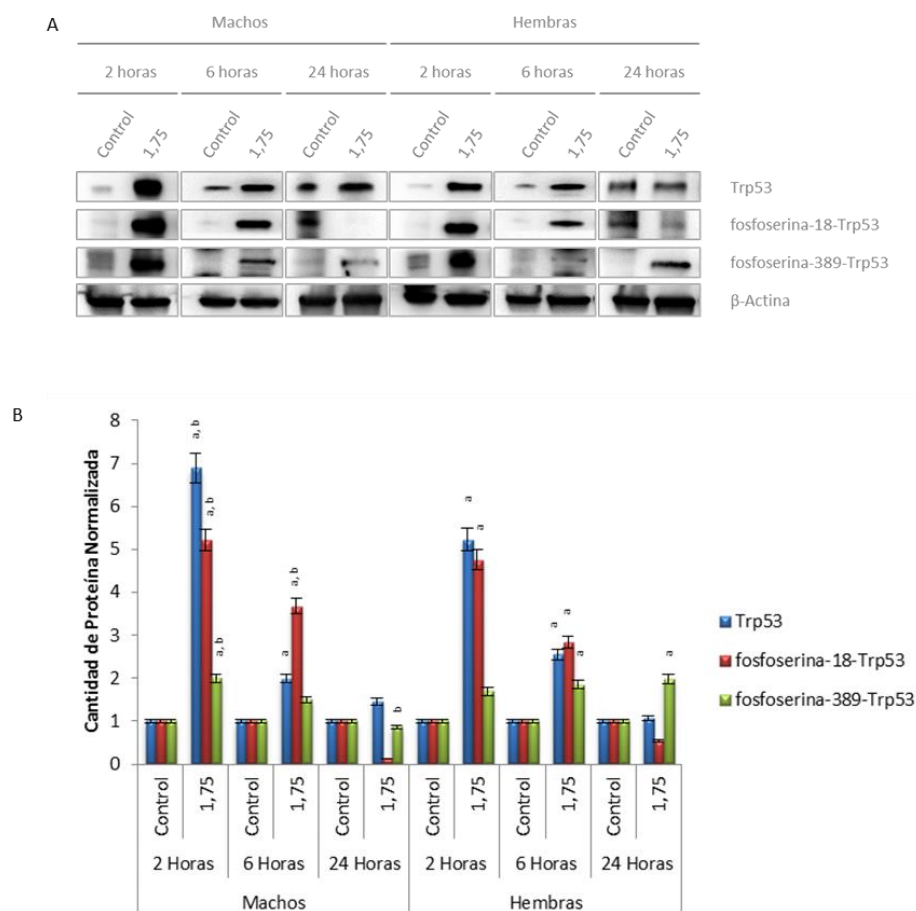


Figura 7. **La exposición a una dosis sub-letal de 1,75 Gy de rayos  $\gamma$  provoca una rápida fosforilación de Trp53 en la serina 18.** **A**, “Western blot” representativo de la proteína Trp53 y sus formas fosforiladas en los residuos serina 18 y 389 a las 2, 6 y 24h de la finalización del tratamiento. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto a su control. **B**, Análisis comparativo de los niveles normalizados de Trp53, fosfoSerina-18-Trp53 y fosfoSerina-389-Trp53 correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de 1,75 Gy con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy entre machos y hembras.

Como cabría esperar, las cantidades más altas de la proteína Trp53 se detectaron a las 2 horas de haber finalizado la irradiación con rayos  $\gamma$ , disminuyendo notablemente a las 6 horas. Esta reducción continuó a las 24 horas alcanzando niveles cercanos a los de la situación control. Cuando analizamos los niveles de fosforilación de Trp53 en la serina 18 encontramos un patrón similar con niveles de expresión máximos a las 2 horas y prácticamente indetectables a las 24 horas. Sin embargo, los incrementos en los niveles de fosforilación de Trp53 en la serina 389 son muchos menos acusados que los producidos en la serina 18 y, además, no sufren grandes fluctuaciones a lo largo del tiempo. La existencia de patrones de expresión diferenciales para estas dos formas fosforiladas de Trp53 sugieren papeles diferentes en la respuesta al daño inducido en el ADN por la exposición a la radiación ionizante



#### **A.5. La fosforilación de Trp53 en la serina 389 protege de la apoptosis y de la inducción de roturas de doble cadena en el ADN en timocitos de ratones expuestos al régimen adaptativo de radiación**

Una vez analizados los niveles de expresión de Trp53 y sus formas fosforiladas en las serinas 18 y 389 a lo largo del tiempo, estudiamos la respuesta radioadaptativa midiendo los efectos sobre la expresión de dichas proteínas (**Figura 8**). La expresión de la proteína Trp53 en los timocitos radioadaptados fue casi idéntica a la de la situación control. Por el contrario, los niveles de fosforilación de Trp53 en la serina 18 aumentaron notablemente en los timocitos de ratones expuestos al régimen adaptativo de radiación en comparación con los encontrados en los timocitos de ratones C57BL/6 no tratados. Sin embargo, los aumentos en la fosfoserina-18-Trp53 fueron mucho más bajos en los timocitos radioadaptados que en los timocitos de ratones tratados con una dosis única de rayos  $\gamma$  (1,75 Gy) (**Figura 8**).

Por lo que respecta a la forma fosforilada de Trp53 en la serina 389, encontramos un patrón de expresión inverso al de la fosfoserina-18-Trp53. En los timocitos de ratones expuestos al régimen adaptativo de radiación encontramos fuertes aumentos en los niveles de fosforilación de Trp53 en la serina 389 que contrastaban con las cantidades extremadamente bajas de fosfoserina-389-Trp53 asociadas a los timocitos de ratones tratados con una dosis de 1,75 Gy de rayos  $\gamma$  (**Figura 8**). Una vez más, se detectaron diferencias entre ambos sexos mostrando unos niveles de fosforilación de la serina 389 mucho más altos en los machos que en las hembras.

Dado que parece existir una relación estrecha entre los niveles de fosforilación de Trp53 en la serina 18 y los de inducción de apoptosis en respuesta a la radiación ionizante (Wittlinger et al., 2007), quisimos averiguar si estas dos variables estaban correlacionadas en la respuesta radioadaptativa. Los datos del análisis de correlación demostraban la existencia de una asociación positiva entre los niveles reducidos de fosfoserina-18-Trp53 y de caspasa 3 activa tanto en machos ( $r=0,998$ ,  $t=21,0855$ ,  $df=1$ ,  $P=0,03$ ) como en hembras ( $r=0.9995$ ,  $t=31.6768$ ,  $df=1$ ,  $P=0.02$ ). Estos datos son consistentes con el papel que juega fosfoserina-18-Trp53 en la inducción de la apoptosis como consecuencia de la exposición a la radiación ionizante.

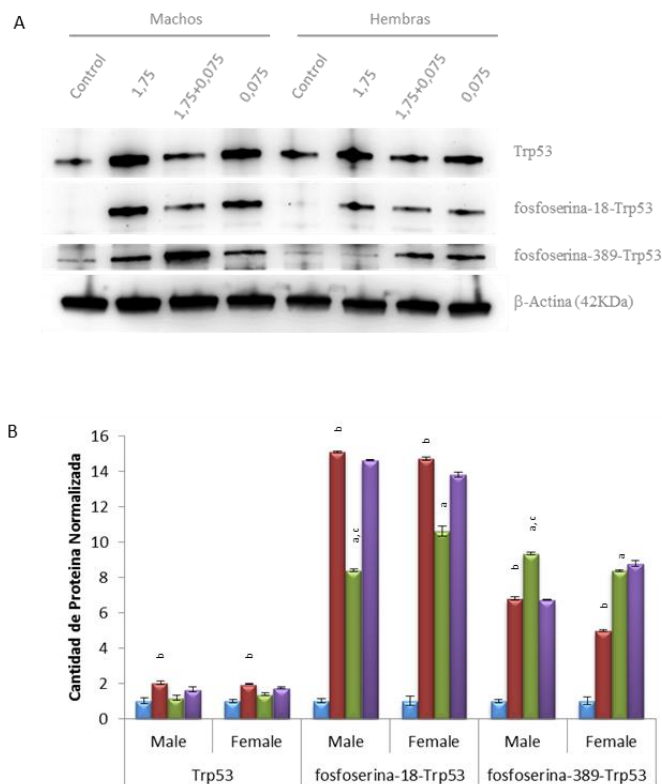


Figura 8. **La fosforilación de Trp53 en la serina 389 protege de la apoptosis y de la inducción de roturas de doble cadena en el ADN en timocitos de ratones expuestos al régimen adaptativo de radiación.** **A**, “Western blot” representativo de la proteína Trp53 y sus formas fosforiladas en los residuos serina 18 y 389 a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto de su control. **B**, Análisis comparativo de los niveles normalizados de Trp53, fosfoserina-18-Trp53 y fosfoserina-389-Trp53 correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy con el control; <sup>c</sup> comparando la respuesta radioadaptativa entre machos y hembras.

A continuación llevamos a cabo un análisis de correlación para determinar si las cantidades caspasa 3 activa y de fosfoserina-389-Trp53 mantenían algún tipo de asociación. A diferencia de lo que ocurría con la fosfoserina-18-Trp53, dicho análisis demostró una relación inversa muy alta con una asociación lineal significativa entre las cantidades de caspasa 3 y fosfoserina-389-Trp53 en los timocitos radioadaptados de machos ( $r = -0,99993$ ,  $t = -87,7847$ ,  $df = 1$ ,  $P = 0,007$ ) y de hembras ( $r = -0,9995$ ,  $t = -31,6768$ ,  $df = 1$ ,  $P = 0,02$ ). Estos datos sugieren que la fosforilación de Trp53 en la serina 389 podría jugar algún papel en la reducción de la apoptosis mediada por caspasa 3.

Como era de esperar, las reducciones en los niveles de fosfoserina-18-Trp53 correlacionaron, también, positivamente con los descensos en las cantidades de  $\gamma$ H2ax con asociaciones lineales significativas en los timocitos radioadaptados de machos ( $r = 0,99972$ ,  $t = 42,7853$ ,  $df = 1$ ,  $P = 0,014$ ) y hembras ( $r = 0,9998$ ,  $t = 64,759$ ,  $df = 1$ ,  $P = 0,009$ ). Por el contrario, se encontró una correlación inversa significativa entre los niveles de

fosforilación de Trp53 en la serina 389 y de  $\gamma$ H2ax cuando analizamos timocitos de machos ( $r=-0.99993$ ,  $t=-83,4874$ ,  $df=1$ ,  $P=0,007$ ) y hembras ( $r=-0,9998$ ,  $t=64,759$ ,  $df=1$ ,  $P=0,009$ ) expuestos al régimen adaptativo de radiación. Estos resultados sugieren que la señal que induce la fosforilación de la serina 389 en la proteína Trp53 está relacionada de algún modo con un nivel reducido de daño en el ADN o, lo que es lo mismo, con número bajo de roturas en el ADN de doble cadena.

#### **A.6. El aumento de fosfoserina-389-Trp53 en los timocitos radioadaptados va acompañado de una reducción simultánea en los niveles de fosforilación de la proteína Mdm2 en la serina 166**

Teniendo en cuenta que la irradiación  $\gamma$  induce en células MOLT-4, derivadas de una leucemia linfocítica de células T humana, una fosforilación simultánea de Trp53 en la serina 392 y de Mdm2 en la serina 166 (Tichy et al., 2007), quisimos averiguar si esta situación se producía también en los timocitos de ratones C57BL/6 expuestos a un régimen adaptativo de radiación. Dicho análisis demostró un comportamiento antagónico con cantidades de fosfoserina-166-Mdm2 extremadamente bajas (**Figura 9**) acompañando a los niveles máximos de fosforilación de Trp53 en la serina 389 en los timocitos radioadaptados. La existencia de un patrón inverso de expresión para la formas fosforiladas de Trp53 en serina 389 y de Mdm2 en serina 166 es congruente con el mecanismo de autoregulación mutua que existe entre estas dos proteínas.

La proteína quinasa Akt, conocida también como PkB (del inglés “protein kinase B”), está implicada en la transducción de señales anti-apoptóticas, fosforilando, entre otras, la proteína Mdm2 en la serina 166 (Meek y Knippschild, 2003). Dado que las señales transducidas por Akt/PkB y Trp53 están integradas a través de un mecanismo de retroalimentación negativo (Gottlieb et al., 2002), decidimos, también, analizar la forma fosforilada de Akt en la treonina 308 (forma activa de Akt/PkB) en nuestras situaciones experimentales (**Figura 9**). Nuestro análisis no encontró variaciones significativas en las cantidades de fosfotreonina-308-Akt/PkB en comparación con la situación control. La falta de correspondencia entre los niveles de fosforilación de Mdm2 (serina 166) y Akt/PkB (treonina 308), sugiere que Akt/PkB no parece tener un papel relevante en la respuesta radioadaptativa de los timocitos estudiada en este trabajo.

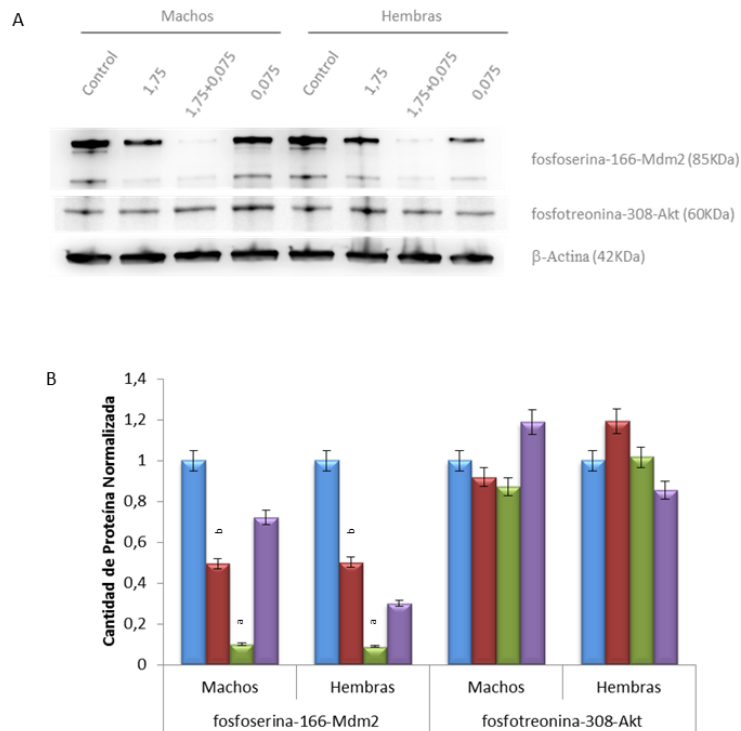


Figura 9. **El aumento de fosfofoserina-389-Trp53 en los timocitos radioadaptados va acompañado de una reducción simultánea en los niveles de fosforilación de la proteína Mdm2 en la serina 166.** **A**, “Western blot” representativo las forma fosforiladas de las proteínas Mdm2 en la serina 166 y Akt en la treonina 308 a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto de su control. **B**, Análisis comparativo de los niveles normalizados de fosfofoserina-166-Mdm2 y fosfotreonina-308-Akt correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy con el control.

#### A.7. Niveles máximos de expresión para la forma fosforilada de p38Mapk y de fosfofoserina-389-Trp53 in timocitos radioadaptados

Estudios *in vitro* utilizando células epidérmicas de ratón han permitido demostrar que la forma fosforilada (Thr180/Tyr182) de p38Mapk (del inglés “p38 mitogen activated protein kinase”) se asocia con la proteína Trp53 y la fosforila directamente en la serina 389 (Huang et al., 1999). Por lo tanto, resultaba fundamental para nuestro estudio poder determinar la expresión de la forma activa (o fosforilada) de p38Mapk en los timocitos radioadaptados.

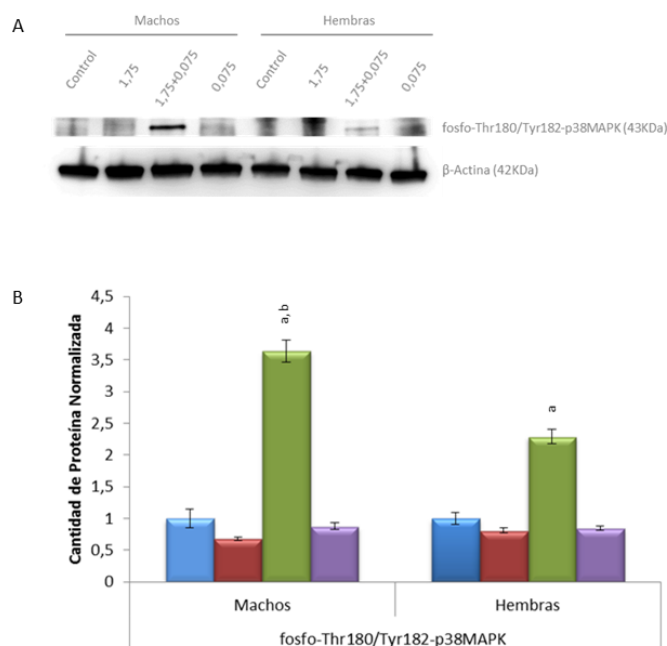


Figura 10. **Niveles máximos de expresión para la forma fosforilada de p38MAPK y de fosfoserina-389-Trp53 in timocitos radioadaptados.** A, "Western blot" representativo de las formas fosforiladas de la proteínas p38MAPK en la treonina 180 y tirosina 182 a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su β-actina y a su vez respecto de su control. B, Análisis comparativo de los niveles normalizados de fosfo-Thr180/Tyr182.p38MAPK correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>b</sup> comparando la respuesta radioadaptativa entre machos y hembras.

Al igual que ocurrió con la fosforilación de Trp53 en la serina 389, nuestro análisis mostró niveles máximos de expresión para la forma activada de p38Mapk en los timocitos de ratones expuestos al régimen adaptativo de radiación (**Figura 10**). Además, encontramos una fuerte correlación entre los niveles de expresión de ambas proteínas con una asociación lineal significativa tanto en los machos ( $r=0,99976$ ,  $t=46,5361$ ,  $df=1$ ,  $P=0,013$ ) como en las hembras ( $r=0,99979$ ,  $t=49,2148$ ,  $df=1$ ,  $P=0,012$ ). Por otro lado, llama la atención que las cantidades de la forma activada de p38Mapk sean extremadamente bajas en los timocitos de ratones expuestos a una dosis única tanto de rayos X como de irradiación  $\gamma$  (**Figura 10**). En su conjunto, nuestros datos apuntan a que los aumentos de expresión de la forma activada de p38Mapk parecen ser un hecho característico de la respuesta radioadaptativa.

#### A.8. La transcripción de los genes diana de Trp53 no juega un papel esencial en la respuesta radioadaptativa de los timocitos de ratones C57BL/6

Dada la importancia de fosfoserina-389-Trp53 en la respuesta radioadaptativa, nos preguntamos acerca del posible papel transactivacional de Trp53 en dicha

respuesta analizando los niveles de expresión proteica de seis genes diana que participan en la regulación de la apoptosis en respuesta al daño inducido en el ADN por la radiación ionizante: *Puma*, *Bax*, *Cd95*, *p21<sup>Cdkn1a</sup>*, *Gadd45a* y *Tigar*.

*Puma* (del inglés “P53 Up-regulated Modulator of Apoptosis) y *Bax* (del inglés “Bcl2-Associated X protein”) son dos genes pro-apoptóticos que juegan un papel importante en la inducción de apoptosis por la vía intrínseca o mitocondrial en los timocitos expuestos a la irradiación  $\gamma$  (Erster et al., 2004; Miyashita y Reed, 1995; Nakano y Vousden, 2001). En este estudio, observamos un incremento en los niveles de expresión de la proteína Puma en los timocitos de ratones expuestos al régimen adaptativo de radiación en comparación con los de la situación control, pero no encontramos diferencias entre los distintos tratamientos analizados en este trabajo (**Figura 11**). Estos resultados indican claramente que la transactivación del gen *Puma* no tiene un papel relevante en la respuesta radioadaptativa de los timocitos. Por otro lado, no encontramos diferencias significativas en las cantidades de la proteína Bax entre tratamientos, ni tampoco al comparar éstos con respecto a la situación control. Por tanto, el gen *Bax* no parece tener ningún efecto en la inducción de apoptosis mediada por Trp53 tanto en los timocitos radiadaptados como en los no radioadaptados

El gen *Cd95* codifica para el receptor de muerte Fas, una proteína transmembrana perteneciente a la familia de receptores TNF-R (del inglés “Tumor necrosis factor-receptor”) y componente esencial de la vía apoptótica extrínseca (Nagata y Golstein, 1995). Además, la expresión transcripcional basal de *Cd95* es una de las más altas en el timo (Bouvard et al., 2000) y nuestro grupo ha demostrado que aumenta notablemente en este tejido después de la exposición a una dosis sub-letal de 10 Gy de rayos  $\gamma$  (Villa-Morales et al., 2006). En base a este tipo de evidencias, nos propusimos estudiar los niveles de expresión traduccional de la proteína Fas bajo nuestras condiciones experimentales. Las cantidades de Fas detectadas en los distintos tratamientos no variaban significativamente de las obtenidas en la situación control (**Figura 12**), indicando que el gen *Cd95* no parece desempeñar un papel de relevancia ni en los timocitos radioadaptados ni tampoco en los timocitos de ratones expuestos a una dosis única de 1,75 Gy de rayos  $\gamma$  o de 0.075 Gy de rayos X.

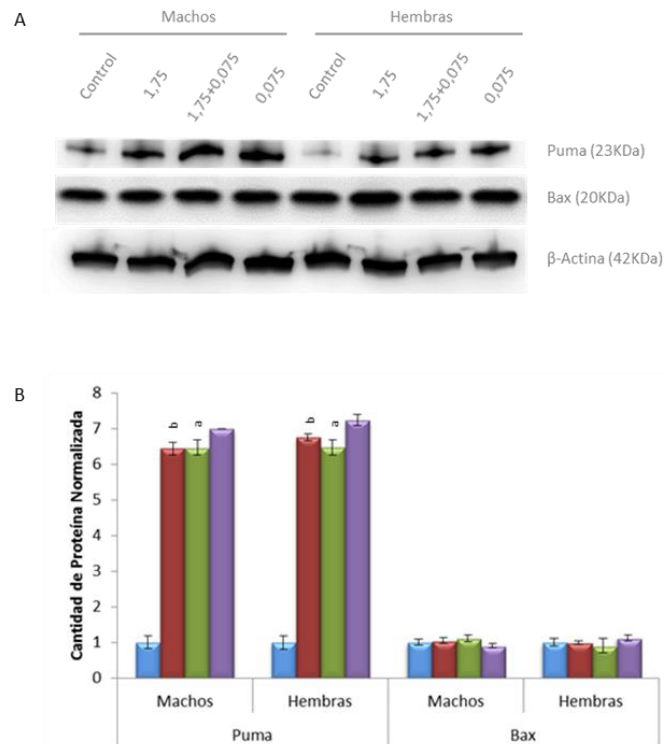


Figura 11. **Inducción de la proteína pro-apoptótica Puma y ausencia de modulación de Bax en respuesta a la radiación ionizante.** **A**, "Western blot" representativo las de las proteínas Puma y Bax a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto de su control. **B**, Análisis comparativo de los niveles normalizados de Puma y Bax correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy con el control.

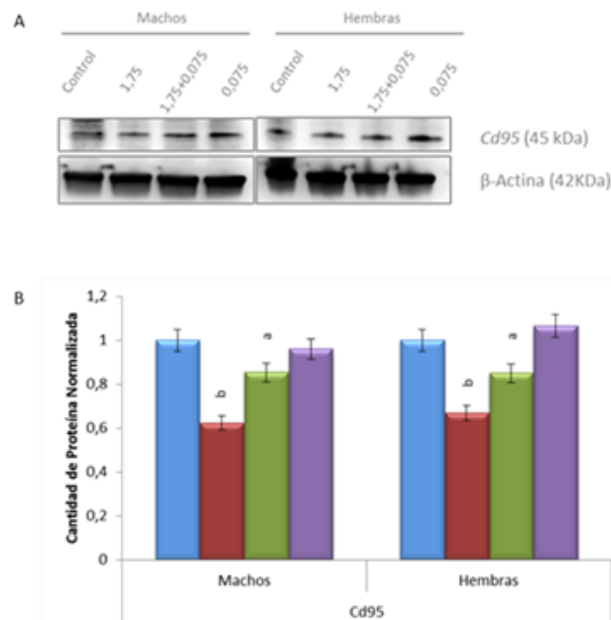
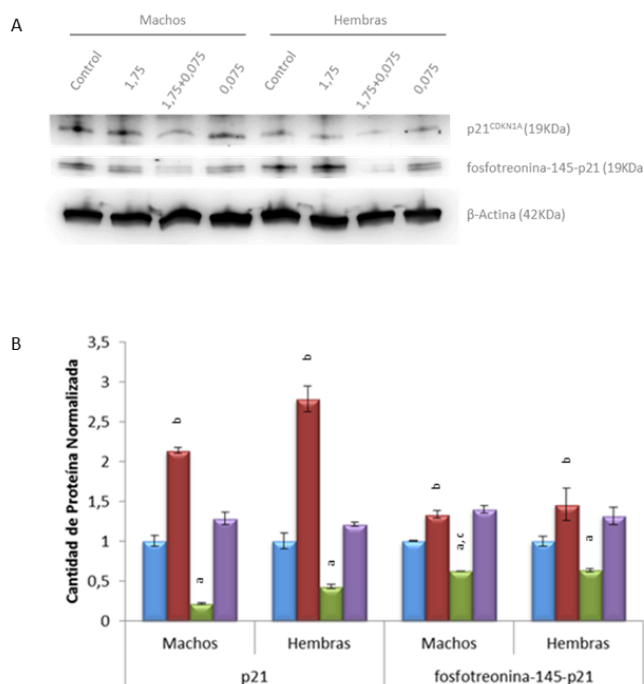


Figura 12. **Ausencia de modulación de Cd95 en respuesta a la radiación ionizante.** **A**, "Western blot" representativo las de la proteínas Cd95 a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto de su control. **B**, Análisis comparativo de los niveles normalizados de Cd95 correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy con el control.

La proteína inhibidora del ciclo celular  $p21^{Cdkn1a}$ , codificada por el gen *Cdkn1a*, es otro de los genes diana de Trp53 que desempeña un papel esencial en la respuesta al daño del ADN, no sólo induciendo la detención del ciclo celular, sino también regulando la apoptosis (Cazzalini et al., 2010). El estudio de la proteína  $p21^{Cdkn1a}$  realizado en este trabajo muestra pequeños incrementos en el caso de las exposiciones a una dosis baja de rayos X (0.075 Gy) y mucho mayores cuando los ratones han sido expuestos a una dosis alta de 1,75 Gy de irradiación  $\gamma$ . Por el contrario, los niveles de expresión de la proteína  $p21^{Cdkn1a}$  son extremadamente bajos en los timocitos de ratones expuestos a un régimen adaptativo de radiación, estando por debajo incluso de los encontrados en los controles (**Figura 13**). Por tanto, nuestros datos no sugieren ningún papel para  $p21^{Cdkn1a}$  en el control de la respuesta radioadaptativa. Dado que la regulación post-traducciona de  $p21^{Cdkn1a}$  a nivel de la fosforilación de la treonina 145 juega un papel en la regulación de la respuesta apoptótica como consecuencia de su estabilización y localización en el citoplasma (Piccolo y Crispi, 2012), procedimos también al análisis de esta forma fosforilada. Los niveles más bajos de fosforilación de  $p21^{Cdkn1a}$  en la treonina 145 se encontraron de nuevo en los timocitos radioadaptados, mientras que en el resto de las condiciones experimentales se detectaron ligeros aumentos en las cantidades de fosfotreonina-145- $p21^{Cdkn1a}$  (**Figura 13**). Estos datos tampoco permiten implicar al gen *Cdkn1a* en control de la apoptosis en la respuesta radioadaptativa.



**Figura 13. Niveles mínimos de expresión de la proteína  $p21^{Cdkn1a}$  y fosfotreonina-145- $p21^{Cdkn1a}$  en la respuesta radioadaptativa.** A, "Western blot" representativo de las proteínas  $p21^{Cdkn1a}$  y su forma fosforilada en el residuo treonina 145 a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto de su control. B, Análisis comparativo de los niveles normalizados de  $p21^{Cdkn1a}$  y fosfotreonina-145- $p21^{Cdkn1a}$  correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy con el control; <sup>c</sup> comparando la respuesta radioadaptativa entre machos y hembras.



La modulación de la glicolisis puede tener un efecto importante en la sensibilidad de las células a la inducción de apoptosis (Vander Heiden et al., 2001). Por otro lado, se ha demostrado que la expresión del gen *TIGAR* (del inglés “*TP53-induced glycolysis and apoptosis regulator*”) baja los niveles de la fructosa-2,6-bisofosfato en la célula, lo que resulta en una inhibición de la glicolisis y modula la respuesta apoptótica de Trp53, permitiendo la supervivencia celular (Bensaad et al., 2006). De acuerdo con estas evidencias, estudiamos los niveles de expresión de la proteína Tigar para determinar si jugaba algún papel en la reducción de los niveles de expresión observada en los timocitos radioadaptados. Dicho análisis no reveló ningún aumento en la cantidad de proteína Tigar detectada ni con respecto a la situación control ni tampoco en relación al resto de los tratamientos examinados en este trabajo. Por el contrario, se detectaron niveles mucho más bajos que descartan cualquier implicación de este gen en la respuesta radioadaptativa bajo nuestras condiciones experimentales (**Figura 14**).

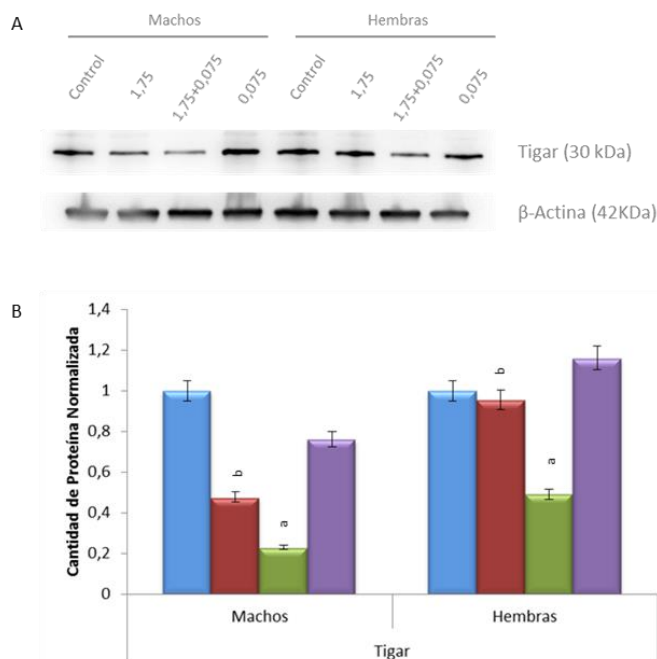


Figura 14. **El gen *Tigar* no se induce en respuesta a la radiación ionizante.** **A**, “Western blot” representativo la de la proteína Tigar a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto de su control. **B**, Análisis comparativo de los niveles normalizados de Tigar correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy con el control

Por último, analizamos *Gadd45a* que es otro gen diana de *Trp53*, cuyo producto génico cumple un papel importante en respuesta al daño inducido en el ADN interaccionando con diferentes proteínas implicadas en reparación del ADN, control del ciclo celular o regulación de la apoptosis (Liebermann y Hoffman, 2008). En nuestro estudio, el análisis de la proteína Gadd45a siguió un patrón de expresión al descrito para Tigar, detectando los niveles más bajos de expresión de Gadd45a en los timocitos radioadaptados (**Figura 15**).

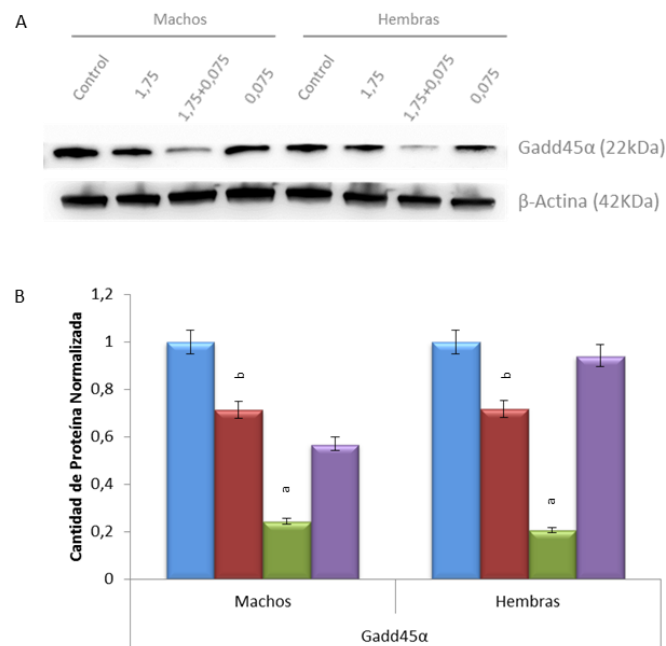


Figura 15. **El gen *Gadd45α* no muestra alteraciones de la expresión en respuesta a la radiación ionizante.** **A**, “Western blot” representativo la de la proteína *Gadd45α* a las 6h de la finalización de los tratamientos. Cada muestra fue normalizada con respecto a su  $\beta$ -actina y a su vez respecto de su control. **B**, Análisis comparativo de los niveles normalizados de *Gadd45α* correspondientes a las distintas situaciones experimentales. Los histogramas representan valores medios normalizados tomados de tres experimentos independientes. En letras minúsculas se indican las diferencias significativas entre los diferentes grupos de estudio con  $P < 0.05$ : <sup>a</sup> comparando el tratamiento de la respuesta radioadaptativa con el control; <sup>b</sup> comparando el tratamiento de 1,75 Gy con el control.

## **B. Análisis global de expresión transcripcional en timocitos de ratones C57BL/6 expuestos al régimen adaptativo de radiación.**

Del análisis de la micromatriz de ADNc (Agilent Technologies) utilizada en este trabajo, se obtuvieron resultados de expresión normalizada para un total de 55681 genes. De éstos, 33822 eran genes conocidos y 16251 eran lincRNAs (del inglés “Long intergenic non coding RNAs”). Cabe destacar que, existían varias repeticiones de un mismo gen, por lo que si atendemos al número de genes valorados en la micromatriz, el número (sin dichas repeticiones) es de 24562.

### **B.1 Genes relacionados con las funciones biológicas del Trp53.**

#### **B.1.1. Genes de reparación del ADN**

Del total de genes de la micromatriz de expresión, únicamente 258 estaban relacionados con la reparación del ADN. De estos, solo dos aparecen diferencialmente expresados entre la respuesta radioadaptativa y el tratamiento con una dosis alta de irradiación  $\gamma$ . En la **Tabla 4** se muestra el resultado del t-test moderado con corrección por comparaciones múltiples para los dos genes de reparación del ADN diferencialmente expresados. Para el gen *Palb2*, que está diferencialmente expresado en machos, el FC no excede en valor absoluto el 1.8 y se trata de una expresión reducida (FC negativo). Es decir, que existe una menor expresión de este gen en timocitos radioadaptados, comparada con la de los timocitos expuestos a una dosis de 1,75 Gy de rayos  $\gamma$ . En cuanto al otro gen (*Dmc1*) con expresión diferencial tanto en machos como en hembras, el FC no excede en valor absoluto el 2.2 y se trata de una expresión reducida tanto en machos como en hembras. Es decir que existe una menor expresión de este gen en timocitos de ratones expuestos a un régimen adaptativo de radiación comparada con la de los tratados con una dosis única alta de rayos  $\gamma$  (1,75 Gy). El gen *Palb2* codifica para una proteína que desempeña una función importante en el proceso de reparación por recombinación homóloga (HR, del inglés “homologous recombination”) de roturas de doble cadena en el ADN (Sy *et al.* 2009). El gen *Dmc1* codifica una proteína perteneciente a la superfamilia de las recombinasas, que participa en la reparación de las roturas de cadena doble del ADN producidas durante la mitosis y la meiosis (Li *et al.* 2006).

ID	logFC	t	P-valor ajustado	Gen	Descripción	Sexo
A_55_P2129369	-1,74	-8,01	0,0004	Palb2	Mus musculus partner and localizer of BRCA2 (Palb2), transcript variant 2, mRNA [NM_001289842]	Macho
A_51_P289131	-1,52	-4,84	0,0052	Dmc1	Mus musculus DMC1 dosage suppressor of mck1 homolog, meiosis-specific homologous recombination (Dmc1), transcript variant 1, mRNA [NM_010059]	Macho
	-2,12	-4,12	0,0096			Hembra

Tabla 4. **Resultados de los análisis de expresión diferencial de genes implicados en reparación del ADN en machos y hembras.** ID= identificador de gen en la micromatriz; logFC= log2-fold change correspondiente al contraste entre las condiciones experimentales RRA (respuesta radioadaptativa frente a dosis alta (1,75 Gy); t= t-test estadístico moderado; P-valor ajustado=P valor del t test moderado con corrección por comparaciones múltiples de Benjamini-Hochberg;; Gen= Nombre del gen, Descripción= Descripción del gen con referencia a la base de datos NCBI-Gene; Sexo= macho/hembra

### B.1.2. Genes de apoptosis

En cuanto a los genes implicados en el control de la apoptosis, solo 1 de los 103 genes que forman parte de este grupo aparece diferencialmente expresado en machos al comparar los timocitos radioadaptados con los que han sido expuestos a una dosis única de rayos  $\gamma$ . En la **Tabla 5** se puede observar el resultado del t-test moderado con corrección por comparaciones múltiples para este gen, *Nod1*. En el caso de dicho gen, El FC no excede en valor absoluto el 1.6 y se trata de una sobre-expresión (FC positivo). Es decir que existe una mayor expresión del gen *Nod1* en timocitos radioadaptados, comparada con la de los timocitos expuestos a una dosis de 1,75 Gy de rayos  $\gamma$ .

ID	logFC	t	P-valor ajustado	Gen	Descripción
A_51_P234113	1,50	7,99	0,0004	Nod1	Mus musculus nucleotide-binding oligomerization domain containing 1 (Nod1), transcript variant 1, mRNA [NM_172729]

Tabla 5. **Resultados de los análisis de expresión diferencial de genes implicados en apoptosis en machos y hembras.** ID= identificador de gen en la micromatriz; logFC= log2-fold change correspondiente al contraste entre las condiciones experimentales RRA (respuesta radioadaptativa frente a dosis alta (1,75 Gy); t= t-test estadístico moderado; P-valor ajustado=P valor del t test moderado con corrección por comparaciones múltiples de Benjamini-Hochberg;; Gen= Nombre del gen, Descripción= Descripción del gen con referencia a la base de datos NCBI-Gene

El gen *Nod1* codifica una proteína que está implicada en la activación de caspasa 9 y, por tanto, en el incremento de la apoptosis mediada por dicha proteína (Inohara et al. 1999)

### B.1.3. Genes implicados en el control del ciclo celular

En la micromatriz de ADNc estaban anotados 477 genes relacionados con el ciclo celular, de los que solo uno (*Cdc23*) aparece diferencialmente expresado en hembras al comparar el régimen adaptativo de radiación y la exposición a un adosis alta de irradiación  $\gamma$ . En la **Tabla 6**, se puede observar el resultado del t-test moderado con

corrección por comparaciones múltiples para el gen *Cdc23*. En dicho gen se observa que el FC no excede en valor absoluto el 1.8 y se trata de una expresión reducida (FC negativo). Es decir que existe una menor expresión de este gen en timocitos de ratones expuestos a un régimen adaptativo de radiación, comparada con la de los tratados con una dosis única alta.

ID	logFC	t	P-valor ajustado	Gen	Descripción
A_55_P2052981	-1,72	-4,00	0,0177	Cdc23	CDC23 cell division cycle 23 [Source:MGI Symbol;Acc:MGI:1098815] [ENSMUST00000135208]

Tabla 6. **Resultados de los análisis de expresión diferencial de genes implicados en ciclo celular en machos y hembras.** ID= identificador de gen en la micromatriz; logFC= log2-fold change correspondiente al contraste entre las condiciones experimentales RRA (respuesta radioadaptativa frente a dosis alta (1,75 Gy); t= t-test estadístico moderado; P-valor ajustado=P valor del t test moderado con corrección por comparaciones múltiples de Benjamini-Hochberg; Gen= Nombre del gen, Descripción= Descripción del gen con referencia a la base de datos NCBI-Gene

El gen *Cdc23* codifica para una proteína que juega un papel fundamental en la progresión del ciclo celular regulando la fase G2/M (Prinz *et al.* 1998; Zhang *et al.* 2011).

## B.2 ARNs no codificantes intergénicos de tamaño largo

De los 16251 lincRNAs presentes en la micromatriz utilizada en este trabajo, solo 61 aparecían diferencialmente expresados sin tener en cuenta las diferencias entre sexos al comparar la respuesta radioadaptativa con la exposición a un dosis alta de irradiación  $\gamma$  (**Figura 16**). Se puede observar que en machos existen 16 lincRNAs diferencialmente expresados, 22 en hembras y 23 apareciendo en los dos sexos.

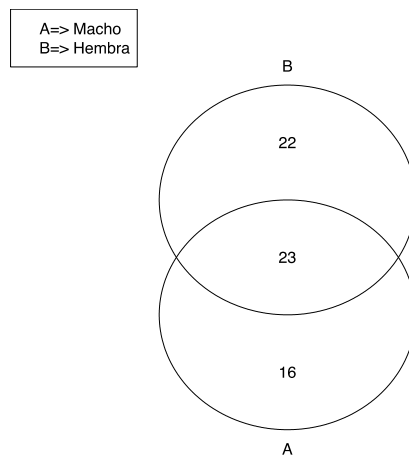


Figura 16. **lincRNAs asociados con la respuesta radioadaptativa.** Diagrama de Venn mostrando el número de lincRNAs que están diferencialmente expresados entre sexos.

En las **Tablas 7, 8 y 9**, se muestran los resultados del t-test moderado con corrección por comparaciones múltiples correspondientes a los lincRNAs expresados diferencialmente, divididos en tres grupos:

- Grupo 1: lincRNAs con expresión diferencial sólo en machos
- Grupo 2: lincRNAs con expresión diferencial sólo en hembras
- Grupo 3: lincRNAs con expresión diferencial en ambos sexos

En el grupo 1 de lincRNAs (**Tabla 7**), encontramos que el FC no excede en valor absoluto el 3, y existen 6 de ellos con expresión reducida (FC negativo) y 10 lincRNAs sobre-expresados (FC positivo).

Tabla 7. Grupo 1: lincRNAs con expresión diferencial sólo en machos				
ID	logFC	t	P-valor ajustado	Descripción
A_30_P01022218	2,43	8,01	0,0081	lincRNA:chr12:111287772-111333890 reverse strand
A_30_P01032099	2,38	5,77	0,0481	lincRNA:chr3:93582250-93592950 forward strand
A_30_P01029545	2,37	6,04	0,0374	lincRNA:chr1:175660642-175671878 reverse strand
A_30_P01024706	2,24	8,22	0,0072	lincRNA:chr1:175660642-175671878 reverse strand
A_30_P01025184	1,99	6,07	0,0369	lincRNA:chr3:86961614-86966377 forward strand
A_30_P01023623	1,87	7,95	0,0082	lincRNA:chr11:119250824-119286324 forward strand
A_30_P01033671	1,73	5,98	0,0386	lincRNA:chr7:111530578-111539097 reverse strand
A_30_P01026078	1,62	8,70	0,0067	lincRNA:chrX:123295327-123300036 forward strand
A_30_P01023785	1,51	6,50	0,0260	lincRNA:chr2:128137419-128141735 reverse strand
A_30_P01021081	1,50	6,48	0,0261	lincRNA:chr2:119697845-119719245 forward strand
A_30_P01033328	-1,51	-8,59	0,0067	lincRNA:chr10:83185606-83225506 forward strand
A_30_P01019477	-1,54	-6,50	0,0260	lincRNA:chr1:63163023-63180223 reverse strand
A_30_P01033352	-1,73	-6,24	0,0311	lincRNA:chr17:8719950-8783850 reverse strand
A_30_P01021310	-1,79	-6,39	0,0285	lincRNA:chrX:165792277-165807952 forward strand
A_30_P01018828	-2,06	-8,20	0,0072	lincRNA:chr1:167797581-167803031 forward strand
A_30_P01023475	-2,96	-6,59	0,0251	lincRNA:chr10:98718526-98719169 reverse strand

Tabla 7. **Resultados de los análisis de expresión diferencial de los lincRNAs asociados a la RRA.** ID= identificador de gen en la micromatriz; logFC= log2-fold change correspondiente al contraste entre las condiciones experimentales RRA (respuesta radioadaptativa frente a dosis alta (1,75 Gy); t= t-test estadístico moderado; P-valor ajustado=P valor del t test moderado con corrección por comparaciones múltiples de Benjamini-Hochberg; Gen= Nombre del gen, Descripción= Descripción del gen con referencia a la base de datos NCBI-Gene

En el segundo grupo (**Tabla 8**), se observa que el FC no excede en valor absoluto el 2.7 y existen 11 con expresión reducida (FC negativo) y 11 sobre-expresados (FC positivo).

Tabla 8. Grupo 2: lincRNAs con expresión diferencial sólo en hembras				
ID	logFC	t	P-valor ajustado	Descripción
A_30_P01022747	2,46	7,13	0,0171	lincRNA:chr19:59498190-59531390 reverse strand
A_30_P01023448	2,16	5,74	0,0475	lincRNA:chr17:84477999-84489215 forward strand
A_30_P01022571	2,06	7,45	0,0129	lincRNA:chr8:26343277-26352902 reverse strand
A_30_P01030409	2,00	5,98	0,0451	lincRNA:chr5:143196275-143207575 reverse strand
A_30_P01022005	1,83	7,43	0,0129	lincRNA:chr11:119254413-119296960 forward strand
A_30_P01030363	1,77	6,26	0,0371	lincRNA:chr5:53751894-53763013 reverse strand
A_30_P01018971	1,76	5,77	0,0475	lincRNA:chr2:65240793-65292293 forward strand
A_30_P01020171	1,68	7,04	0,0183	lincRNA:chr14:65720392-65769859 reverse strand
A_30_P01032297	1,65	7,72	0,0105	lincRNA:chr17:32948750-32967925 forward strand
A_30_P01024565	1,60	6,68	0,0251	lincRNA:chr6:100162756-100178531 forward strand
A_30_P01024289	1,51	6,59	0,0274	lincRNA:chr9:67414463-67483185 reverse strand
A_30_P01031312	-1,53	-5,73	0,0475	lincRNA:chr1:167802183-167805411 forward strand
A_30_P01017743	-1,54	-6,25	0,0371	lincRNA:chr10:83181374-83249774 forward strand
A_30_P01025399	-1,62	-6,18	0,0396	lincRNA:chr10:94900849-94928059 reverse strand
A_30_P01022608	-1,71	-5,85	0,0462	lincRNA:chr18:78190463-78235438 forward strand
A_30_P01024710	-2,17	-5,74	0,0475	lincRNA:chr10:98718526-98719169 reverse strand
A_30_P01019023	-2,28	-5,89	0,0462	lincRNA:chr5:22905597-22939154 reverse strand
A_30_P01020711	-2,32	-5,87	0,0462	lincRNA:chr1:183781704-183783320 reverse strand
A_30_P01028255	-2,51	-6,38	0,0338	lincRNA:chr8:123649699-123649970 reverse strand
A_30_P01028828	-2,57	-8,48	0,0066	lincRNA:chr13:28477490-28985604 reverse strand
A_30_P01017880	-2,61	-5,67	0,0498	lincRNA:chr13:28477490-28985604 reverse strand
A_30_P01023721	-2,68	-5,82	0,0475	lincRNA:chr2:33661335-33669111 forward strand

Tabla 8. **Resultados de los análisis de expresión diferencial de los lincRNAs asociados a la RRA.** ID= identificador de gen en la micromatriz; logFC= log2-fold change correspondiente al contraste entre las condiciones experimentales RRA (respuesta radioadaptativa frente a dosis alta (1,75 Gy)); t= t-test estadístico moderado; P-valor ajustado=P valor del t test moderado con corrección por comparaciones múltiples de Benjamini-Hochberg; Gen= Nombre del gen, Descripción= Descripción del gen con referencia a la base de datos NCBI-Gene

En el último grupo (**Tabla 9**) que comprende los 23 lincRNAs con expresión diferencial en ambos sexos, se observa que en el caso de los machos, El FC no excede en valor absoluto el 3 y existe 1 lincRNA con expresión reducida (FC negativo) y los 22 lincRNAs restantes están sobre-expresados (FC positivo). Mientras que, en el caso de las hembras, el FC no excede en valor absoluto el 2.3 y existen 2 lincRNAs con expresión reducida (FC negativo) y 21 sobre-expresados (FC positivo).

En conjunto, este análisis demuestra que la respuesta radioadaptativa está asociada mayoritariamente con la sobre-expresión de lincRNAs, poniendo de manifiesto la importancia de la regulación genética mediada por este tipo de ARNs no codificantes en dicha respuesta.

Tabla 9. Grupo 3: lincRNAs con expresión diferencial en ambos sexos					
ID	logFC	t	P-valor ajustado	Descripción	Sexo
A_30_P01032159	2,92	8,62	0,0067	lincRNA:chr12:50490638-50508093 forward strand	Macho
	2,21	9,41	0,0043		Hembra
A_30_P01019306	2,33	14,01	0,0010	lincRNA:chr11:119254413-119296960 forward strand	Macho
	2,19	9,70	0,0036		Hembra
A_30_P01024163	2,24	10,05	0,0055	lincRNA:chr1:175705225-175717250 reverse strand	Macho
	2,20	10,91	0,0036		Hembra
A_30_P01018941	2,24	6,64	0,0241	lincRNA:chr1:175654606-175672031 reverse strand	Macho
	2,15	8,40	0,0068		Hembra
A_30_P01019537	2,22	8,29	0,0072	lincRNA:chr1:175653557-175671940 reverse strand	Macho
	2,07	8,11	0,0088		Hembra
A_30_P01021597	2,20	10,17	0,0055	lincRNA:chr1:175654606-175672031 reverse strand	Macho
	1,98	9,22	0,0044		Hembra
A_30_P01021447	2,20	9,30	0,0064	lincRNA:chr1:175653557-175671940 reverse strand	Macho
	2,05	6,77	0,0233		Hembra
A_30_P01017895	2,17	8,20	0,0072	lincRNA:chr1:175654606-175672031 reverse strand	Macho
	2,17	7,88	0,0098		Hembra
A_30_P01031526	2,07	9,66	0,0055	lincRNA:chr1:175654606-175672031 reverse strand	Macho
	2,03	10,15	0,0036		Hembra
A_30_P01021838	2,04	9,80	0,0055	lincRNA:chr1:175654606-175672031 reverse strand	Macho
	1,89	8,83	0,0057		Hembra
A_30_P01029875	2,02	6,25	0,0311	lincRNA:chr5:110891642-110918642 forward strand	Macho
	-1,58	-6,88	0,0209		Hembra
A_30_P01021884	1,98	9,20	0,0064	lincRNA:chr1:175653557-175671940 reverse strand	Macho
	1,75	7,63	0,0111		Hembra
A_30_P01018824	1,94	8,54	0,0067	lincRNA:chr1:175705225-175717250 reverse strand	Macho
	1,90	9,71	0,0036		Hembra
A_30_P01027543	1,93	8,93	0,0067	lincRNA:chr1:175705225-175717250 reverse strand	Macho
	1,81	9,86	0,0036		Hembra
A_30_P01021136	1,90	6,80	0,0229	lincRNA:chr11:119254413-119296960 forward strand	Macho
	1,82	7,82	0,0098		Hembra
A_30_P01025572	1,88	9,65	0,0055	lincRNA:chr6:57583950-57624216 forward strand	Macho
	1,77	10,00	0,0036		Hembra
A_30_P01025357	1,86	8,94	0,0067	lincRNA:chr6:57583950-57624216 forward strand	Macho
	1,76	8,49	0,0066		Hembra
A_30_P01023338	1,85	7,76	0,0098	lincRNA:chr1:175705225-175717250 reverse strand	Macho
	1,72	9,84	0,0036		Hembra
A_30_P01022549	1,74	8,27	0,0072	lincRNA:chr1:175705225-175717250 reverse strand	Macho
	1,77	9,80	0,0036		Hembra
A_30_P01018204	1,74	7,00	0,0199	lincRNA:chr5:15176325-15223375 forward strand	Macho
	1,66	6,12	0,0403		Hembra
A_30_P01030969	1,72	8,66	0,0067	lincRNA:chr1:175660642-175671878 reverse strand	Macho
	1,53	7,81	0,0098		Hembra
A_30_P01027703	1,54	7,06	0,0198	lincRNA:chr18:36072785-36076426 forward strand	Macho
	1,50	9,17	0,0044		Hembra
A_30_P01026687	-1,93	-6,74	0,0236	lincRNA:chr8:59994102-59994797 forward strand	Macho
	-1,72	-6,36	0,0338		Hembra



Tabla 9. **Resultados de los análisis de expresión diferencial de los lincRNAs asociados a la RRA.** ID= identificador de gen en la micromatriz; logFC= log2-fold change correspondiente al contraste entre las condiciones experimentales RRA (respuesta radioadaptativa frente a dosis alta (1,75 Gy); t= t-test estadístico moderado; P-valor ajustado=P valor del t test moderado con corrección por comparaciones múltiples de Benjamini-Hochberg; Gen= Nombre del gen, Descripción= Descripción del gen con referencia a la base de datos NCBI-Gene; Sexo= macho y hembra

### B.3 Genes no relacionados con las funciones biológicas del Trp53

Dentro este grupo había anotaciones para 32992 genes, pero tan solo 625 aparecen diferencialmente expresados al comparar timocitos radioadaptados con timocitos tratados con una dosis única de rayos  $\gamma$ . Como se puede observar en la **Figura 17**, 190 genes aparecían diferencialmente expresados sólo en machos, 285 en hembras y los 150 restantes en ambos sexos.

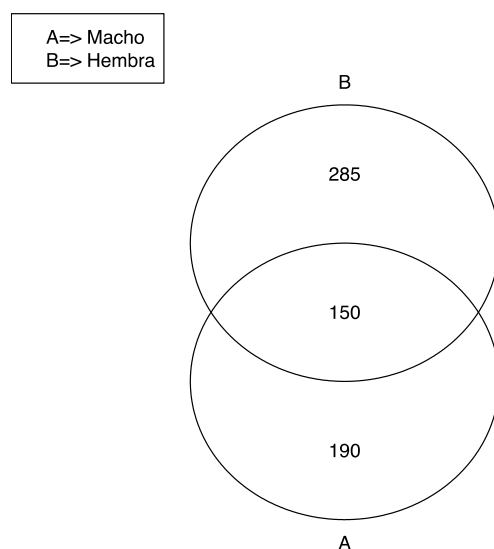


Figura 17. **Genes asociados con la respuesta radioadaptativa no relacionados con las funciones biológicas del TP53.** Diagrama de Venn mostrando el número de genes que están diferencialmente expresados entre sexos.

En material suplementario y dentro del Anexo 1 (ver CD adjunto) se muestran los resultados del t-test moderado con corrección por comparaciones múltiples para los 625 genes mencionados anteriormente. Si nos fijamos en los genes que muestran los valores de FC más altos ( $FC \geq 3$ ), llama la atención que la mayoría de ellos estén implicados en funciones relacionadas con el sistema inmune (**Tabla 10**).

Genes con expresión diferencial						
ID	logFC	t	P-valor ajustado	Gen	Descripción	Sexo
A_55_P2071176	3,27	4,42	0,0252	Il1f9	Mus musculus interleukin 1 family, member 9 (Il1f9), mRNA [NM_153511]	Macho
A_55_P1988108	3,12	11,76	0,0004	Mrc1	Mus musculus mannose receptor, C type 1 (Mrc1), mRNA [NM_008625]	Macho
A_51_P312485	-2,94	-5,96	0,0072	Fpr1	Mus musculus formyl peptide receptor 1 (Fpr1), mRNA [NM_013521]	Hembra
A_55_P2016462	4,42	14,61	0,0002	Cxcl10	Mus musculus chemokine (C-X-C motif) ligand 10 (Cxcl10), mRNA [NM_021274]	Macho
	3,66	12,49	0,0002			Hembra
A_51_P322640	4,20	13,76	0,0002	Ccl24	Mus musculus chemokine (C-C motif) ligand 24 (Ccl24), mRNA [NM_019577]	Macho
	3,91	11,96	0,0002			Hembra

Tabla 10. **Resultados de los análisis de expresión diferencial de 5 genes asociados a la respuesta radiadaptativa y relacionados con funciones del sistema inmune.** ID= identificador de gen en la micromatriz; logFC= log2-fold change correspondiente al contraste entre las condiciones experimentales RRA (respuesta radioadaptativa frente a dosis alta (1,75 Gy); t= t-test estadístico moderado; P-valor ajustado=P valor del t test moderado con corrección por comparaciones múltiples de Benjamini-Hochberg;; Gen= Nombre del gen, Descripción= Descripción del gen con referencia a la base de datos NCBI-Gene; Sexo=macho/hembra

A continuación se detallan sus funciones biológicas:

- El gen *Il1f9*, codifica una proteína que actúa como antagonista en la activación de NF-Kappa B (Debets *et al.* 2001). Así mismo, podría jugar un papel en la maduración y función de células dendríticas, en la proliferación de timocitos y en la respuesta inflamatoria (Foster *et al.* 2014).
- El gen *Mrc1*, codifica un receptor de membrana que regula la endocitosis de glicoproteínas por macrófagos (Alter *et al.* 2010).
- El gen *Fpr1*: Codifica una proteína que media la respuesta de células fagocíticas frente a la invasión por patógenos. Proteína importante en el sistema inmune y en respuesta inflamatoria (Liu *et al.* 2012).
- El gen *Cxcl10*: codifica una quimioquina que actúa de ligando para el receptor de CXCR3. Esta unión da lugar a efectos pleiotrópicos, que incluyen la estimulación de monocitos, células NK, la migración de las células T y variación en la expresión de moléculas de adhesión (Chiang *et al.* 2013).
- El gen *Ccl24*: codifica una citoquina Ccl24 que presenta actividad quimiotáctica de neutrófilos, y eosinófilos (Zimmermann *et al.* 2000).

## DISCUSION

En este trabajo, demostramos que el efecto protector que ejerce la exposición a una dosis baja condicionante (0.075 Gy, 0,133 Gy/min) de rayos X frente a los efectos perjudiciales que ocasiona una dosis provocadora alta de irradiación  $\gamma$  (1,75 Gy, 2,5 Gy/min), administrada 6 horas después del primer tratamiento, se manifiesta como una reducción en inducción de apoptosis y en la formación de roturas de doble cadena en el ADN en timocitos ratones de la cepa C57BL/6 (**Figuras 5 y 6**). Estas reducciones iban acompañadas de disminuciones significativas en los niveles de fosforilación de la proteína Trp53 en la serina 18, en comparación con una exposición a una dosis única de 1,75 Gy de rayos  $\gamma$  (**Figura 8**). Trabajos previos han demostrado que un tratamiento con una dosis condicionante baja de rayos  $\gamma$ , administrada de manera continua a una tasa de dosis baja (0,02 Gy, 667  $\mu$ Gy/min) durante un periodo de 30 minutos, previo a la exposición con una dosis de 2 Gy de rayos  $\gamma$ , provoca una supresión de la apoptosis y una reducción de los niveles de fosfoserina-18-Trp53 en células de bazo de ratón (Okazaki et al., 2007). Nuestros datos difieren únicamente en el hecho de que no detectamos aumentos significativos en los niveles de expresión de la forma no fosforilada de Trp53. En conjunto, todas estas evidencias resaltan la importancia que tiene el contexto en el que se produce la exposición a la dosis condicionante baja y el efecto que tiene ésta sobre la expresión génica en la respuesta radioadaptativa.

La reducción en los niveles de fosforilación de Trp53 en la serina 18 no iba acompañada por una disminución simultánea de las cantidades de fosfofosfoserina-389-Trp53 en los timocitos de ratones expuestos al régimen de adaptativo de radiación. Por el contrario, los timocitos radioadaptados mostraban niveles más altos al compararlos con los de los timocitos expuestos únicamente a una dosis provocadora de 1,75 Gy de rayos  $\gamma$  (**Figura 8**). Nuestros datos contrastan con los encontrados por otros autores en células MOLT-4 (derivadas de un leucemia linfocítica humana), los cuales muestran niveles similares de fosforilación de TRP53 en la serina 392 (serina 389 en el caso de la proteína Trp53 de ratón) después de la exposición a la irradiación  $\gamma$  dentro de un rango de dosis comprendido entre 0,5 Gy y los 7,5 Gy (Tichy et al., 2007). La existencia de un patrón inverso de expresión para la fosfoserina-18-Trp53 y fosfoserina-389-Trp53 entre los timocitos radioadaptados y los timocitos de ratones expuestos a 1,75 Gy de

rayos  $\gamma$  (**Figura 8**), sugiere que estas dos formas fosforiladas deben tener funciones diferentes en respuesta al nivel de daño en el ADN inducido por la radiación ionizante. Está ampliamente documentado que la fosforilación de la proteína TRP53 humana en la serina 15 (serina 18 en la de ratón) es un evento temprano que ocurre en repuesta a la inducción de roturas de doble cadena producidas en el ADN después de la exposición a la radiación ionizante (Loughery et al., 2014). Como cabría esperar, dado que existe una correspondencia entre la inducción de roturas de doble cadena y los niveles de fosforilación de TRP53 en la serina 15 (Wittlinger et al., 2007), los niveles más altos de fosforilación de Trp53 en la serina 18 aparecen en las muestras con un nivel más alto de daño en el ADN, esto es, las que han sido tratadas con 1,75 Gy de rayos  $\gamma$  (**Figura 6**). Por el contrario, el hecho de que los niveles máximos de fosforilación de Trp53 en la serina 389 se asocien con el régimen adaptativo de radiación, que induce un menor número de roturas de doble cadena en el ADN, sugiere que la fosfoserina-389-Trp53 tiene un papel relevante en la inducción del efecto protector observado en los timocitos radioadaptados. Este trabajo demuestra, por primera vez, que la fosforilación de Trp53 en la serina 389, juega un papel esencial en el establecimiento de la respuesta radioadaptativa.

Datos previos obtenidos del análisis de células humanas, muestran que la fosforilación de serina 392 (serina 389 en el caso del ratón) tiene un papel crítico en la estabilización de la proteína TRP53 inhibiendo su mecanismo de transporte al exterior del núcleo, pero dicha fosforilación no bloquea su interacción con Mdm2 (Kim et al., 2004). A diferencia de la fosforilación de la serina 15 (serina 18 en el ratón), que regula el reclutamiento de factores de transcripción y actúa cooperativamente como un reóstato estimulando la actividad de TRP53 (Loughery y Meek, 2013), la fosforilación de la serina 389 no parece ser esencial su activación como factor de transcripción (Kim et al., 2004). El gen *Trp53* puede inducir apoptosis tanto a través de la transactivación de sus genes diana como mediante mecanismos independientes de la transcripción génica. En el timo de ratones expuestos a la radiación ionizante, la proteína Trp53 se acumula rápidamente en la mitocondria induciendo la apoptosis de timocitos mediante la activación de la caspasa 3 (Erster et al., 2004; Mihara et al., 2003). En la mitocondria, la proteína Trp53 induce directamente la permeabilización de su membrana externa formando complejos inhibidores con las proteínas antiapoptóticas

BclXL y Bcl2, resultando en la liberación del citocromo c y la correspondiente activación de la caspasa 3 (Marchenko et al., 2000; Mihara et al., 2003). Teniendo en cuenta estas evidencias, sería razonable pensar que los aumentos notables de la forma fosforilada de Trp53 en la serina 389 observados después de la exposición al régimen adaptativo de radiación podrían estar impidiendo el transporte de Trp53 desde el núcleo a las mitocondrias, reduciendo de esta manera los niveles de caspasa 3 y de apoptosis en la respuesta radioadaptativa de los timocitos.

El estudio de la proteína Mdm2 llevado a cabo en este trabajo, muestra como hecho más relevante la existencia de niveles de fosforilación reducidos en la serina 166 en el momento de máxima fosforilación de la proteína TP53 (serina 389) en timocitos de ratones expuestos al régimen adaptativo de radiación. En células humanas se ha demostrado que la interacción de MDM2 con TRP53 dentro del núcleo reduce notablemente la capacidad de unión de TRP53 a los factores de transcripción basales y cofactores transcripcionales como p300 (Thut et al., 1997). La fosforilación de MDM2 en la serina 166 promueve la interacción con p300, promoviendo el transporte de TRP53 al citoplasma y su degradación posterior por el proteosoma (Grossman et al., 1998). Para que MDM2 pueda entrar en el núcleo tiene que ser previamente fosforilada, una labor que es realizada por las quinasas PI3K y AKT (Mayo y Donner, 2001). Se ha descrito que la vía de señalización PI3K/AKT está activada en respuesta a la radiación ionizante (Zhan y Han, 2004). Sin embargo, en este trabajo no se observa un descenso en los niveles de la proteína Akt, por lo que no parece jugar un papel en la regulación de la fosforilación de Mdm2 en la serina 166. Por lo tanto, es razonable pensar que exista un mecanismo alternativo que regule los niveles de fosfoserina-166-Mdm2 en los timocitos radioadaptados. Entre los genes inducidos por TRP53 en respuesta a la radiación ionizante se encuentra *CCNG1*, el cual codifica para la ciclina G1 (*CCNG1*) (Jen y Cheung, 2005). Se ha descrito que la proteína ciclina G1 juega un papel importante en el reclutamiento de la fosfatasa Pp2A formando un complejo que defosforila la serina 166 de la proteína Mdm2 (Okamoto et al., 2002). De esta manera, el aumento en la expresión de *Ccng1* inducida por Trp53 en respuesta al daño en el ADN impediría que existiera la suficiente cantidad de Mdm2 (serina 166) fosforilada para unirse con Trp53 y, evitando por tanto, su degradación. El hecho de que los niveles de fosfoserina-166-Mdm2 estén por debajo de los encontrados en la situación

control, sea cual sea el tratamiento analizado, podría apoyar esta hipótesis. Para demostrarla sería necesario llevar a cabo un análisis de la proteína Ccng1 bajo nuestras condiciones experimentales.

Un hecho relevante de nuestra investigación fue encontrar una correlación entre los niveles de expresión de la forma activada de la quinasa p38MAPK y los de su diana la serina 389 de Trp53 en la respuesta radioadaptativa (ver **Figuras 8 y 10**). El residuo serina 392 de Trp53 (serina 389 en el ratón) es la diana de distintas quinasas en condiciones *in vitro*, incluyendo CK2 (del inglés *C*asein *k*inase II") (Hupp et al., 1992), CDK9 del inglés "*C*yclin *d*ependent *k*inase 9") (Radhakrishnan y Gartel, 2006), p38MAPK (Huang et al., 1999) y PKR (del inglés "*P*rotein *k*inase *R*NA-activated") (Cuddihy et al., 1999). De todas ellas, solamente p38MAPK se activa eficazmente después de la exposición a una baja dosis de radiación ionizante y, por el contrario, no se inducía cuando la radiación recibida se daba en forma de alta dosis (Shimizu et al., 1999). Los resultados encontrados en este estudio, indican de manera clara, que la acumulación de la forma activada de p38MAPK solamente se produce cuando la dosis baja de radiación se administra en forma de dosis condicionante (**Figura 10**). Nuestros datos muestran, por primera vez, una asociación *in vivo* entre la activación de p38MAPK y la fosforilación de Trp53 en el residuo serina 389. Por otro lado, se ha sugerido que el gen *Trp53* resulta esencial en la canalización de la apoptosis inducida por las roturas de doble cadena que no han sido reparadas o lo han sido de manera incorrecta en una vía radioadaptativa de reparación de dichas roturas, a través de señales desencadenadas por p38MAPK (Sasaki et al., 2002). La fosforilación de Trp53 en la serina 389 podría tener un papel importante en este cambio, ya que la reducción de la apoptosis y de la formación de roturas de doble cadena en el ADN estaba acompañada de aumentos tanto de p38MAPK como de la fosfoserina-389-Trp53 en la respuesta radioadaptativa de los timocitos.

Una vez que la proteína Trp53 ha sido estabilizada en repuesta al daño en el ADN inducido por la radiación ionizante, ésta puede inducir la transcripción de distintos genes clave como *Cdkn1a*, que provoca una parada en el ciclo de división celular, *Puma*, que inducen una respuesta apoptótica, *Tigar*, que abre una vía de supervivencia celular, o *Gadd45a*, que es un gen de respuesta al estrés genotóxico que controla,

entre otros procesos celulares, vías de reparación del ADN (Beckerman y Prives, 2010; Liebermann y Hoffman, 2008). La decisión de activar un gen u otro depende de distintos factores, siendo el tipo celular uno de los principales determinantes de los procesos celulares mediados por Trp53 en respuesta a la radiación ionizante (Fridman y Lowe, 2003). En nuestro estudio encontramos que la exposición tanto a una dosis baja de rayos X (0.075 Gy) como a una dosis alta de rayos  $\gamma$  (1,75 Gy) induce de manera clara la expresión de *Puma* y, en menor medida, la de *Cdkn1a*, mientras que no existe activación transcripcional alguna de *Tigar* y *Gadd45a*. Estos datos son consistentes con evidencias previas que demuestran que los timocitos de ratón activan fundamentalmente procesos apoptóticos en respuesta a la exposición con radiación  $\gamma$  (Midgley et al., 1995).

Nuestros datos no dejan lugar a dudas acerca de la implicación del gen *Puma* en la inducción de la respuesta apoptótica en los timocitos de ratones expuestos a la radiación ionizante. Estos resultados son congruentes con evidencias previas que demuestran que Trp53 induce apoptosis en los timocitos en respuesta a la irradiación  $\gamma$ , fundamentalmente, a través de Puma (Michalak et al., 2008). No podemos decir lo mismo del gen proapoptótico *Bax*, ya que no se observa ningún tipo de variación en las cantidades de proteína Bax entre la situación control y los distintos tratamientos analizados en este trabajo. Por otra parte, la presencia de Bax es un requisito esencial en la apoptosis mediada por Puma, ya que los ratones deficientes para el gen *Bax* tienen bloqueada esta ruta apoptótica (Yu et al., 2003). De acuerdo con esto, la falta de activación de Bax en respuesta a la radiación ionizante podría bloquear la ruta apoptótica mediada por Puma. Sin embargo, la proteína Puma no actúa como un activador transcripcional de Bax, antes por el contrario, interacciona con la proteína antiapoptótica Bcl2, liberando Bax y dirigiendo la posterior translocación y homodimerización de Bax en la mitocondria (Yu et al., 2003). Una vez allí, los homodímeros Bax provocan la liberación y salida del citocromo c de la mitocondria y la activación de la caspasa 9, culminando de esta manera el proceso apoptótico (Yu et al., 2003). En respuesta a la irradiación  $\gamma$ , la apoptosis dependiente de Puma también implica la homodimerización de Bax y su translocación a la mitocondria (Qiu et al., 2008). Por tanto, unos niveles basales de Bax, como los encontrados en nuestro

estudio, podrían ser suficientes para que la proteína Puma pudiera contribuir a la formación del número adecuado de homodímeros Bax para disparar la señal apoptótica en la mitocondria de los timocitos irradiados.

Sorprendentemente, los niveles de expresión de la proteína Puma no sufrían variaciones significativas entre tratamientos, por lo que si bien este gen es importante para la inducción de apoptosis en timocitos expuestos a la radiación ionizante, no es el responsable de marcar las diferencias notables en los niveles de apoptosis que existen al comparar el régimen adaptativo de radiación con las exposiciones a una dosis única de radiación.

En el caso de la proteína Fas (Cd95) tampoco encontramos diferencias entre tratamientos, ni entre éstos y la situación control. Estos resultados van en contra de la implicación del gen *Cd95* en la inducción de la apoptosis en nuestras condiciones experimentales. No obstante, no podemos descartar completamente su implicación, ya que la presencia de Trp53 en el citoplasma promueve el tráfico de la proteína Fas desde el aparato de Golgi a la membrana celular, sensibilizando a las células frente a la apoptosis inducida por Fas antes de que opere un efecto dependiente de transcripción (Bennett et al., 1998).

En respuesta al daño inducido en el ADN por la radiación ionizante, la sobre-expresión de la proteína p21 codificada por el gen *Cdkn1a* juega un papel importante en la inhibición del proceso apoptótico (Abbas y Dutta, 2009). Sin embargo, bajo ciertas circunstancias los aumentos en las cantidades de p21<sup>Cdkn1a</sup> pueden, también, inducir apoptosis. Esto es lo que ocurre con los ratones transgénicos para p21<sup>Cdkn1a</sup>, cuyos timocitos son extremadamente sensibles a la apoptosis inducida por la radiación ionizante (Fotedar et al., 1999). En nuestro caso, la sobre-expresión de p21<sup>Cdkn1a</sup> no parece jugar un papel relevante en la reducción de los niveles de apoptosis observados en los timocitos de ratones expuestos al régimen adaptativo de radiación, ya que las cantidades de la proteína son incluso significativamente más bajas que las encontradas en la situación control.

El hecho de que las cantidades de proteína p21<sup>Cdkn1a</sup> no guarden una proporcionalidad con los niveles de apoptosis observados en los timocitos



radioadaptados, sugiere la existencia de mecanismos adicionales en el control de la apoptosis mediada por p21<sup>Cdkn1a</sup> en la respuesta radioadaptativa. Se ha descrito que p21<sup>Cdkn1a</sup> controla negativamente la apoptosis inducida en respuesta al daño en el ADN mediante un mecanismo que implica la unión de p21<sup>Cdkn1a</sup> a distintas proteínas reguladoras del proceso apoptótico como la procaspasa 2 (Baptiste-Okoh et al., 2008), la procaspasa 3 (Suzuki et al., 1999) y la quinasa reguladora de la señal apoptótica (ASK1) (Asada et al., 1999), evitando de esa manera la activación de las mismas. Estas interacciones dependen de la fosforilación de la treonina 145 una vez que p21<sup>Cdkn1a</sup> se ha relocalizado en el citoplasma (Zhou et al., 2001). La existencia de niveles extremadamente bajos de fosfotreonina-145-p21<sup>Cdkn1a</sup> en los timocitos radioadaptados indica claramente que la reducción en los niveles de apoptosis, observada en los ratones expuestos a un régimen adaptativo de radiación, no parece depender de la fosforilación de p21<sup>Cdkn1a</sup> en la treonina 145. Esta interpretación se ve apoyada por la inexistencia en nuestro estudio de variaciones significativas en los niveles de expresión de la forma activa de la proteína Akt/PkB, la quinasa que interviene en la fosforilación de p21<sup>Cdkn1a</sup> en la posición ocupada por la treonina 145 (Piccolo y Crispi, 2012).

Existen evidencias con células humanas que atribuyen al gen *TRP53* un papel importante en la determinación de la célula hacia una ruta apoptótica o una vía de supervivencia, que se lleva a cabo mediante la regulación de los niveles intracelulares de ROS. Así por ejemplo, el gen *TRP53* puede inducir apoptosis por una ruta que es dependiente de la producción de ROS (Johnson et al., 1996). Más aún, TRP53 parece regular el potencial de membrana mitocondrial a través de ROS, pero induciendo apoptosis por un mecanismo independiente de la liberación de citocromo c (Li et al., 1999). Por otro lado, el nivel de ROS, actuando como parte de un sistema de autoregulación mutua, puede activar a *TRP53* (Chen et al., 2003; Martindale y Holbrook, 2002). Las especies reactivas de oxígeno, como moléculas de señalización, pueden estar implicadas, también, en el establecimiento de la respuesta radioadaptativa. Por ejemplo, experimentos con fibroblastos humanos irradiados con luz UV demuestran que la adición de antioxidantes tiene un efecto dosis-dependiente sobre la reducción del estrés oxidativo celular y la respuesta radioadaptativa (Jones et al., 1999). En este estudio hemos encontrado en los timocitos radioadaptados tanto niveles bajos de apoptosis como fuertes aumentos de la forma fosforilada de Trp53 en

la serina 389, que estarían dificultando su translocación a la mitocondria. Este tipo de evidencias no permiten apoyar la implicación de una ruta apoptótica mediada por la translocación de Trp53 a la mitocondria y dependiente de la producción ROS. De acuerdo con estos datos, proponemos una hipótesis alternativa según la cual serían los niveles bajos de ROS los que provocarían la inducción de la respuesta radioadaptativa. Estudios previos han demostrado que la proteína TRP53 puede inducir la expresión de genes, como *TIGAR*, que tiene un papel importante en la reducción de los niveles de ROS y, por tanto, protege a la célula contra el estrés oxidativo (Bensaad et al., 2006). De acuerdo con nuestra hipótesis el gen *Tigar* podría ser uno de los responsables de mantenimiento de unos niveles bajos de ROS necesarios para inducir el efecto radioprotector frente a la inducción de apoptosis en los timocitos expuestos al régimen adaptativo de radiación. Sin embargo, no encontramos variaciones significativas en las cantidades de la proteína Tigar bajo nuestras condiciones experimentales. Este papel, por lo tanto, debería ser llevado a cabo por otro tipo de sistema antioxidante.

Se ha descrito que el gen *GADD45A* se activa transcripcionalmente en exposiciones *in vitro* a dosis tan bajas como 0,5 Gy de rayos  $\gamma$  en células linfoblastoides humanas (Zhan et al., 1994). Sin embargo, en nuestro caso no encontramos evidencias de inducción del gen *Gadd45a* a nivel de la expresión proteica en nuestras condiciones experimentales. En condiciones, *in vivo* se requieren dosis más elevadas de radiación para promover la expresión de *GADD45A* (Amundson et al., 2004), por lo que las exposiciones a la radiación ionizante utilizadas en este estudio no serían suficientes para inducir la expresión de *Gadd45a*.

De lo expuesto anteriormente se deduce claramente que Trp53 no tiene un papel relevante como activador transcripcional en la respuesta de los timocitos a la exposición a un régimen adaptativo de radiación. El análisis del perfil transcripcional de los timocitos radioadaptados utilizando micromatrices de ADNc confirma este hecho, ya que tan solo 4 genes de un total de 258, que participan en la inducción de apoptosis, intervienen en mecanismos de reparación del ADN o regulan el ciclo celular, estaban diferencialmente expresados ( $FC \geq 1,5$ ;  $P < 0,05$ ) al comparar el régimen adaptativo de radiación con la exposición a una dosis única de 1,75 Gy de rayos  $\gamma$ .

Nuestros datos contrastan con un estudio *in vitro* de la respuesta radioadaptativa llevado a cabo con líneas celulares humanas de origen linfoblástico (Coleman et al., 2005), donde un número elevado de genes implicados en procesos de reparación del ADN, de respuesta al estrés, control del ciclo celular y de la apoptosis mostraban patrones de expresión diferencial al comparar las células radioadaptadas con las no radioadaptadas. Dado que la principal diferencia entre el estudio *in vitro* llevado a cabo por estos autores y el análisis *in vivo* realizado en el presente trabajo radica en el modo en el que se ha administrado la dosis baja condicionante, el contexto en el que se ha producido la exposición que desencadena la radioadaptación parece ser un factor determinante a la hora de definir el perfil de expresión asociado a la respuesta radioadaptativa.

Uno de los cuatro genes que muestra expresión diferencial es *Nod1*, cuya proteína desempeña una función importante en la inducción de apoptosis por la vía intrínseca o mitocondrial, uniéndose a la caspasa 9 activa y promoviendo la apoptosis inducida por la caspasa 9 (Inohara et al., 1999). El hecho de que los timocitos radioadaptados mostraran unos niveles de expresión transcripcional más altos que los de los timocitos de ratones tratados con una dosis de 1,75 Gy de rayos  $\gamma$  (**Tabla 5**), sugiere que la apoptosis mediada por *Nod1* sería más robusta en los timocitos de ratones expuestos al régimen adaptativo de radiación. Estos datos sugieren que la inducción de apoptosis a través de la caspasa 9 en los timocitos radioadaptados sería canalizada fundamentalmente por la proteína *Nod1*, a diferencia de lo que estaría ocurriendo en los timocitos no radioadaptados, donde la translocación de *Trp53* a la mitocondria sería el mecanismo más importante que desencadenaría la apoptosis mediada por caspasa 9.

Existen otros genes *Dmc1* y *Palb2*, que codifican para proteínas que intervienen en la reparación de roturas de doble cadena en el ADN por la vía HR (del inglés “Homologous recombination”) interaccionando con la recombinasa *Rad51* (Buisson et al., 2010; Masson et al., 1999). En ambos casos, los niveles de expresión transcripcional mostraban niveles más bajos en los timocitos radioadaptados al compararlos con los de los timocitos tratados con 1,75 Gy de rayos  $\gamma$  (**Tabla 4**). La disminución en la cantidad de proteína  $\gamma$ H2AX observada en timocitos de ratones expuestos al régimen

adaptativo de radiación, en comparación con los niveles más altos encontrados después de la exposición a una dosis alta única de irradiación  $\gamma$  (1,75 Gy), es consistente con la existencia de una expresión transcripcional reducida para *Dmc1* y *Palb2* en los timocitos radioadaptados, al tener éstos un nivel de daño en el ADN mucho menor que los no radioadaptados.

El análisis del transcriptoma llevado a cabo en este trabajo demostró, también, la existencia de 61 ARNs no codificantes intergénicos de tamaño largo (o lincRNAs) con expresión diferencial entre timocitos de ratones expuestos al régimen adaptativo de radiación y timocitos tratados con 1,75 Gy de rayos  $\gamma$  (**Figura 16**). El genoma de mamíferos contiene más de 3000 LincRNAs de los que aproximadamente el 20% están asociados con complejos remodeladores de la cromatina, afectando, por tanto, a la expresión génica de sus genes diana (Khalil et al., 2009). Se ha demostrado, además, que el gen *Trp53* es capaz de inducir un LincRNA (definido como lincRNA-p21) que participa en la represión de numerosos genes que intervienen en el control de la respuesta mediada por Trp53 (Huarte et al., 2010). Llama la atención de nuestro estudio que la práctica totalidad de los lincRNAs que presentaban expresión diferencial en ambos sexos, mostraban niveles más altos en timocitos radioadaptados (**Tabla 9**). Estos resultados sugieren un papel muy importante en la regulación de la expresión génica mediada por lincRNAs en la respuesta radioadaptativa.

Llama la atención, por otro lado, la existencia de una serie de genes relacionados con funciones del sistema inmune, que muestran aumentos de expresión mayores en los timocitos radioadaptados que en los timocitos irradiados con una dosis única de rayos  $\gamma$  (**Tabla 10**). Estos datos apoyan evidencias previas que demuestran la importancia de la activación del sistema inmune en respuesta radioadaptativa (Ina et al., 2005), aportando información sobre genes concretos.

Un resultado muy importante de este estudio es el descubrimiento de diferencias a nivel génico entre las respuestas radioadaptativas de ambos sexos. En machos, el efecto protector de la exposición a una dosis condicionante baja de 0,075 Gy de rayos X en la inducción de apoptosis y formación de roturas de doble cadena en el ADN fue mucho más acusado que en el caso de las hembras (**Figuras 5 y 6**). Asimismo, los niveles de fosforilación de *Trp53* en la serina 389 estaban más altos en

los timocitos radioadaptados de los machos en comparación con los de las hembras. Además, una serie de lincRNAs aparecen diferencialmente expresados en uno de los dos sexos. (**Figura 16**). Por último, un número muy elevado de genes que no están directamente relacionados con *Trp53* muestran diferencias a nivel transcripcional entre machos (190 genes) y hembras (285 genes) al comparar la respuesta radioadaptativa con la exposición a una dosis alta (1,75 Gy) de irradiación  $\gamma$  (**Figura 17**). En conjunto, todas estas evidencias sugieren que deben existir factores asociados con el sexo (de tipo hormonal o de otra naturaleza) que podrían estar influyendo en la regulación tanto transcripcional como post-traducciona l de la expresión génica asociada a la respuesta radioadaptativa de los timocitos. Trabajos previos han descrito la existencia de una respuesta diferencial a nivel genómico entre ratones machos y hembras expuestos a una dosis baja de radiación ionizante administrada en forma de dosis única (o aguda) o de manera crónica (Kovalchuk et al., 2004). En esta línea, nuestro estudio demuestra, por primera vez, diferencias entre sexos asociadas a las bajas dosis de radiación pero administradas dentro de un régimen adaptativo de radiación. Estas evidencias dejan claro que existen diferencias en respuesta al estrés genotóxico inducido por las dosis bajas de radiación a nivel de la expresión genética entre machos y hembras de ratón.

## CONCLUSIONES

1. La exposición a una dosis condicionante de 0,075 Gy de rayos X protege a los timocitos de la apoptosis y reduce la formación de roturas de doble cadena en el ADN inducidas por un tratamiento posterior con una dosis provocadora de 1,75 Gy de irradiación  $\gamma$ .
2. El efecto radio-protector de la exposición a una dosis condicionante observado en los timocitos expuestos a un régimen adaptativo de radiación va acompañado de un aumento en los niveles de fosforilación de la proteína Trp53 en el residuo serina 389.
3. El incremento en los niveles de fosforilación de la proteína p38Mapk en los residuos treonina 180 y tirosina 182 observado en los timocitos radioadaptados ocurre de manera simultánea al aumento de expresión de la forma fosforilada de Trp53 en el residuo serina 389, sugiriendo que en la respuesta radioadaptativa *in vivo* la proteína p38Mapk tiene un papel en la fosforilación de ese residuo en Trp53.
4. En timocitos, la función de Trp53 como activador transcripcional no tiene un papel relevante en el establecimiento de la respuesta radioadaptativa.
5. Los ARN no codificantes intergénicos de tamaño largo podrían tener un papel importante en la regulación de la respuesta adaptativa de los timocitos.
6. Existe un efecto genético diferencial en la respuesta radioadaptativa entre ambos sexos, sugiriendo que los factores implicados en la determinación sexual tienen un papel importante en el establecimiento de dicha respuesta.

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**Abstract:** Radioadaptive response (RAR) is a biological defense mechanism whereby exposure to low dose ionizing radiation (IR) mitigates the detrimental effects of high dose irradiation. RAR has been observed using various endpoints, including less induction of apoptosis and reduction of double-strand breaks (DSBs). However, molecular mechanisms of RAR are not fully known. Here, we investigated the in vivo effect of administering priming low dose X-irradiation (0.075 Gy) six hours prior to high dose  $\gamma$ -irradiation (1.75 Gy) on the levels of cleaved caspase 3 and phosphorylated form of histone variant H2ax ( $\gamma$ H2ax) in thymocytes of female and male C57BL/6 mice. Significant reduction in the amounts of cleaved caspase 3 and  $\gamma$ H2ax were observed in radioadapted thymocytes compared to thymocytes of mice exposed to 1.75 Gy or 0.075 Gy alone, and this reduction was more severe in males. Since the Trp53 gene is essential in regulating induction of apoptosis and DSBs after exposure to IR, we investigated the expression of Trp53 and two key phosphorylated forms. Lowest expressions of Trp53 and phosphoserine-18-Trp53 were found in thymocytes of primed mice compared to those of non-primarily challenged mice. In contrast, highest accumulation of phosphoserine-389-Trp53 was observed in thymocytes exposed to a dose of 0.075Gy X-rays followed by 1.75Gy of  $\gamma$ -irradiation, being these increases more pronounced in males. These results suggest for the first time a protective effect against apoptosis and DSB formation for phosphoserine-389-Trp53 in radioadaptive response of mouse thymocytes. In addition, concomitant increased expression of activated-p38MAPK, which phosphorylates Trp53 at serine 389, was found in radioadapted thymocytes. Neither significant changes in the amounts of proapoptotic Puma and Bax proteins nor accumulation of the cell cycle inhibitor p21Cdkn1a were detected in our experimental conditions. These findings suggest that protection from thymocyte apoptosis in RAR occurs by a mechanism independent of Trp53 target gene transactivation.

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**Conflict of Interest Statement**

The authors declare that there are no conflicts of interest

## **Phosphorylation of Trp53 at serine 389 plays a key role in the radioadaptive response in mouse thymocytes**

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## Abstract

Radioadaptive response (RAR) is a biological defense mechanism whereby exposure to low dose ionizing radiation (IR) mitigates the detrimental effects of high dose irradiation. RAR has been observed using various endpoints, including less induction of apoptosis and reduction of double-strand breaks (DSBs). However, molecular mechanisms of RAR are not fully known. Here, we investigated the *in vivo* effect of administering priming low dose X-irradiation (0.075 Gy) six hours prior to high dose  $\gamma$ -irradiation (1.75 Gy) on the levels of cleaved caspase 3 and phosphorylated form of histone variant H2ax ( $\gamma$ H2ax) in thymocytes of female and male C57BL/6 mice. Significant reduction in the amounts of cleaved caspase 3 and  $\gamma$ H2ax were observed in radioadapted thymocytes compared to thymocytes of mice exposed to 1.75 Gy or 0.075 Gy alone, and this reduction was more severe in males. Since the *Trp53* gene is essential in regulating induction of apoptosis and DSBs after exposure to IR, we investigated the expression of Trp53 and two key phosphorylated forms. Lowest expressions of Trp53 and phosphoserine-18-Trp53 were found in thymocytes of primed mice compared to those of non-primarily challenged mice. In contrast, highest accumulation of phosphoserine-389-Trp53 was observed in thymocytes exposed to a dose of 0.075Gy X-rays followed by 1.75Gy of  $\gamma$ -irradiation, being these increases more pronounced in males. These results suggest for the first time a protective effect against apoptosis and DSB formation for phosphoserine-389-Trp53 in radioadaptive response of mouse thymocytes. In addition, concomitant increased expression of activated-p38MAPK, which phosphorylates Trp53 at serine 389, was found in radioadapted thymocytes. Neither significant changes in the amounts of proapoptotic Puma and Bax proteins nor accumulation of the cell cycle inhibitor p21<sup>Cdkn1a</sup> were detected in our experimental conditions. These findings suggest that protection from thymocyte apoptosis in RAR occurs by a mechanism independent of *Trp53* target gene transactivation.

## 1. Introduction

The biological effects induced by exposing mammalian cells to ionizing radiation (IR) are closely associated with radiation doses and dose rates. Epidemiological evidence indicates that exposures of 0.2 to 3 Gy increase risk to cancer proportionally to the radiation dose received [1]. However, low dose radiation ( $<0.1$  Gy) may result in a complex scenario of cellular responses that are either protective or supra-lethal according to the dose [2]. Radioadaptive response (RAR) is a biological defense mechanism whereby a low dose of ionizing radiation (priming dose) protects cells against the detrimental effects of a subsequent higher radiation dose (challenging dose). This protective phenomenon was first demonstrated by Wolf and colleagues in 1984, who showed that human peripheral blood lymphocytes irradiated with tritiated thymidine had fewer chromosomal aberrations when they were subsequently irradiated with a high dose of X-rays [3]. Following this work, studies have focused on radioadaptive response *in vitro* by examining different biological endpoints, including among others mutation induction at the HPRT locus, micronuclei formation, and induction of DNA strand breaks [4]. Radioadaptation has also been analyzed *in vivo* by a whole-body exposure of mice with low-LET (Linear Energy Transfer) radiation (X- or  $\gamma$ -rays), using less induction of apoptosis in splenocytes as the biological endpoint [5; 6].

Understanding the mechanism governing RAR has important implication for cancer risk assessment of radiation in the range of low doses, however, molecular basis of RAR are still not fully understood. Studies using endpoints dependent of the transformation related protein p53 (Trp53), such as apoptosis induced by IR, showed that the percentage of apoptotic cells in the spleen of wild-type *Trp53* mice after a priming  $\gamma$ -irradiation delivered at a low dose rate was associated with either low [5] or enhanced expression of the Trp53 protein [6]. By contrast, *Trp53*  $-/-$  mouse spleen cells were refractory to RAR observed as a reduction of apoptosis [7]. Altogether, this evidence highlights a requirement of the *Trp53* gene in the induction of RAR, but the molecular mechanism underlying the protective role of *Trp53* from apoptosis remains to be clarified.

It is well documented that DNA damage triggers a cellular signaling response mediated by TRP53 to regulate cell cycle arrest, DNA damage repair, and/or apoptotic

pathways [8]. Radiation-activated signaling pathways transiently stabilize and accumulate the TRP53 protein into the nucleus, and then activate as a transcription factor [9]. Phosphorylation of serine 15 (serine 18 in murine Trp53) is considered to be an initiating event in TRP53 stabilization and activation after exposure to IR [10]. In addition, it has been suggested that the serine 15 phosphorylation might be a useful marker of DNA damage since there is a correspondence between the protein levels of the phosphorylated form of TRP53 in this residue and the amount of double strand breaks (DSBs) [11]. Phosphorylation of histone variant H2AX on serine 139 ( $\gamma$ H2AX) plays a crucial role in the response of mammalian cells to DSBs [12]. The serine 392 on TRP53 (serine 389 in murine Trp53) is also required for stabilization of TRP53 in cooperation with phosphorylation of serine 15 in response to UV radiation [13], but it is unknown whether this cooperative effect is necessary to stabilize TRP53 after ionizing radiation exposure. In the context of RAR, it has been demonstrated that phosphoserine-18-Trp53 expression was reduced in primed mice compared with mice exposed to a high dose of  $\gamma$ -irradiation alone [6]. However, no evidence exists so far on the possible involvement of phosphoserine-389-Trp53 in the control of RAR.

On the other hand, cell type is one of the most important determinants of the *Trp53*-mediated cellular outcome [14]. Thymocytes largely undergo *Trp53*-dependent apoptosis in response to whole-body  $\gamma$ -irradiation of mice [15]. A significant increase in the apoptosis index in thymocytes appeared after exposure of mice to high or even low doses of whole-body  $\gamma$ -irradiation six hours following the end of treatment [16]. In an opposite way, mice receiving a low dose of 0.075 Gy priming X-irradiation administered 6 hours prior to a high dose of 1-2 Gy of X-rays exhibited a reduction of apoptosis in thymocytes compared to mice receiving high dose X-irradiation alone [17]. However, the relationship between radioprotection and *Trp53*-dependent thymocyte apoptosis in mice exposed to an adaptive regimen of radiation has not yet been studied.

We therefore decided to investigate in this study the role of Trp53 in the induction of RAR in mouse thymocytes, using as endpoints the reduction in the percentage of apoptotic cells as well as the level of DNA damage estimated by the amount of  $\gamma$ H2ax protein. To this end, we estimated not only the effects on the protein expression of Trp53, but also measured the levels of phosphorylation of Trp53 at the serine 18 and 389, respectively.

## **2. Materials and methods**

### *2.1. Mice and irradiation*

Male and female C57BL/6J mice were purchased from the Charles River Laboratories. Animal experiments were carried out according to the European Commission Guidelines (Directive 86/609/CEE) on the use of laboratory animals.

Mice were irradiated with a priming dose of 0.075 Gy (dose rate 0.133 Gy/min) of X-rays that generated by a Philips deep X-machine with 100kV/15mA and filters of 1mm of Be and 3mm of Al. With an interval of 6 hours, that it has been used for radioadaptive studies with thymocytes [17], mice were further irradiated with challenging dose of 1.75 Gy (dose rate 2.5 Gy/min) of  $\gamma$ -rays that were generated by a  $^{137}\text{Cs}$  gamma irradiator.

### *2.2. Thymic cell fractionation*

Mouse thymus samples were mechanically dispersed and strained through a nylon mesh (BD Biosciences) to isolate the thymocytes.

### *2.3. Western blot analysis*

Isolated thymocytes were homogenized in radioimmunoprecipitation assay (RIPA) lysis buffer supplemented with protease and phosphatase inhibitor cocktails (Roche). Protein samples were then electrophoresed on Mini-PROTEAN<sup>®</sup> TGX<sup>™</sup> precast gels (4–15% gradient gels; BioRad), and subsequently transferred onto PVDF membranes (Millipore). Immunoblots were performed using standard procedures. All primary antibodies were used at 1:1000 dilution, except for  $\beta$ -actin (A 5316; Sigma) that was used at 1:5000; phospho-p21 (Thr 145)-R (sc-20220-R; Santa Cruz) that was used at 1:200; phospho-p53 (Ser15) (#9284; Cell Signaling) and phospho-p53 (Ser392) (#9281; Cell Signaling) that were used at 1:500. The following antibodies were used: p53 (1C12) (#2524; Cell Signaling), Cleaved Caspase-3 (Asp175) (#9661; Cell Signaling), phospho-p38 MAP Kinase (Thr180/Tyr182) Antibody (#9211; Cell Signaling), Puma (#7467; Cell Signaling), p21 (C-19) (sc-397; Santa Cruz), BAX (#2772, Cell Signaling), phospho-Histone H2A.X (Ser139) (#2577; Cell Signaling) and secondary antibodies Anti-rabbit IgG, HRP-linked Antibody (#7074; Cell Signaling) and Anti-mouse IgG, HRP-linked Antibody (#7076; Cell Signaling).

The blots were then visualized using the chemiluminescent WesternBright™ ECL detection kit reagent (K-12045-D50; Advanta) and ImageQuant LAS 4000 biomolecular imager analyzer (GE Healthcare). For quantification of the western blot bands, the Scion Image (Scion Corporation) analyzer program was used.

#### 2.4. *Estimation of apoptosis*

We used the fragmentation of caspase 3 as indicator of apoptosis induction, since it is well known that pro-caspase 3 is cleaved into the 17-19kDa and 12 kDa subunits only when cells undergo apoptosis [18]. Amounts of activated caspase 3 (17/19kDa), were determined by Western blotting and densitometry analysis. Given that apoptosis reached maximal levels 6 hours postirradiation in thymocytes of C57BL/6 mice [16], we used this time to estimate levels of apoptosis.

#### 2.5. *Statistical analysis*

First, to compare normalized values of protein expression between experimental groups one-way ANOVA tests were performed with Bonferroni comparison post-hoc tests. Second, Pearson product-moment correlation coefficients and their statistical significance were calculated to assess the strength and the direction of the associations between expressions. These analyses were sex-stratified (male/female) and performed using R software (R Core Team, 2014. R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL: <http://www.R-project.org/>).

### **3. Results and Discussion**

#### *3.1. Phosphorylation of Trp53 at serine 389 protects from apoptosis and DSB formation in thymocytes of C57BL/6 mice exposed to the adaptive regimen of radiation*

In murine thymus,  $\gamma$ -radiation-induced apoptosis, estimated by caspase 3 activation, is entirely dependent of the *Trp53* gene, since it is absent in *Trp53* null mice [19]. Therefore, we first analyzed the effect of whole-body exposing 0.075 Gy of priming X-rays followed in six hours by 1.75 Gy of challenging  $\gamma$ -rays (hereafter referred as adaptive regimen of radiation) on the induction of cleaved caspase 3 in thymocytes of male and female C57BL/6 mice. Figure 1 shows the expression of the cleaved caspase 3 as detected by Western blotting and subsequent densitometric



analyses. Lowest increases of cleaved caspase 3 were found in mice exposed to the adaptive regimen of radiation, this effect being more pronounced in male mice. Intermediate levels were detected in mice treated with a dose of 0.075 Gy of X-rays alone (hereafter referred as low dose irradiation), and highest amounts of this protein were observed in mice exposed to a single dose of 1.75 Gy of  $\gamma$ -rays (hereafter referred as high dose irradiation) (Figure 1). These results indicate that the adaptive response associated with protection from apoptosis is stronger in males than in females.

Once demonstrated an adaptive response of thymocyte apoptosis, we measured the amounts of  $\gamma$ H2ax protein in our experimental conditions to investigate whether there is a protective effect against the induction of DSBs in RAR. Highest amounts of  $\gamma$ H2ax compared to basal levels were observed in thymocytes exposed to high dose irradiation, while after the adaptive regimen of radiation the amounts of  $\gamma$ H2ax decreased even below those observed in exposures with low dose irradiation alone (Figure 1). In addition, levels of  $\gamma$ H2ax in male primed mice were lower than in primed females.

Next, we evaluated RAR by measuring the effects on the expression of Trp53 protein and its phosphorylated forms on serine 18 and 389, respectively. Trp53 expression in radioadapted thymocytes was almost identical to that in the control group (Figure 2). In contrast, significant increases in phosphorylation levels of Trp53 at serine 18 were found in thymocytes of priming mice in comparison with thymocytes of non-treated mice. However, radioadapted thymocytes showed lower increases than those observed in thymocytes of non-primarily challenged mice (Figure 2). Previous findings had demonstrated suppression of apoptosis after priming chronic low dose irradiation (0.02 Gy, 667 $\mu$  Gy/min) in association with high Trp53 expression and lower amounts of phosphoserine-18-Trp53 in mouse spleen cells [6]. Therefore, our results only differ in that there is no significant overexpression of Trp53 in the adaptive regimen of radiation to which mice were exposed.

Surprisingly, we found that reduction in the amounts of phosphorylated Trp53 at serine 18 is not accompanied by concomitant decrease in phosphoserine-389-Trp53 in radioadapted thymocytes. Striking increases in the phosphorylation levels of Trp53 at serine 389 were detected after the adaptive regimen of radiation compared to increases found following exposure to high dose irradiation. Once more, gender differences were

observed with males showing higher levels of phosphoserine-389-Trp53 expression (Figure 2).

Interestingly, a high inverse relationship with a significant correlation was found between expressions of cleaved caspase 3 and phosphoserine-389-Trp53 in radioadapted thymocytes of males ( $r=-0.99993$ ,  $t=-87.7847$ ,  $df=1$ ,  $P=0.007$ ) and females ( $r=-0.9995$ ,  $t=-31.6768$ ,  $df=1$ ,  $P=0.02$ ). Our results are not consistent with those reported by other authors in where similar phosphorylation levels of human TRP53 at serine 392 were found after exposure to  $\gamma$ -irradiation over the 0.5-7.5 Gy dose range [20]. Therefore, high levels of serine 389 phosphorylation appear to be a necessary requirement in establishing of RAR in mouse thymocytes.

Previous data derived from the analysis of human cells, showed that serine 392 phosphorylation (serine 389 in murine Trp53) plays a critical role in TRP53 stability by inhibiting its nuclear export mechanism, but it is not essential in transactivation [21]. On the other hand, it has been reported that Trp53 rapidly accumulates at mitochondria of thymocytes undergoing  $\gamma$ -radiation-induced caspase 3-mediated apoptosis [19]. In the mitochondria, the Trp53 protein directly induces permeabilization of the outer mitochondrial by forming inhibitory complexes with the anti-apoptotic BclXL and Bcl2 proteins, resulting in cytochrome c release and caspase 3 activation by the intrinsic death pathway [22; 23]. Furthermore, location of Trp53 in the cytoplasm may enhance levels of FaS (Cd95/Apo1) cell death receptor at the cell surface by promoting trafficking of the Fas protein from the Golgi, leading to activation of caspase 3 by the extrinsic death pathway [24], which is induced by IR exposure as we previously demonstrated [25]. Taking into account this evidence, it would be reasonable to think that the observed increases in the amount of phosphorylated form of Trp53 at serine 389 in radioadapted thymocytes might be hindering the transport of Trp53 from nucleus to mitochondria and cytoplasm, thereby reducing the levels of cleaved caspase 3, and therefore apoptosis, in response to radioadaptation.

As expected, reductions in phosphoserine-18-Trp53 correlated to decreases in  $\gamma$ H2ax in radioadapted thymocytes of males ( $r=0.99972$ ,  $t=42.7853$ ,  $df=1$ ,  $P=0.014$ ) and females ( $r=0.9998$ ,  $t=64.759$ ,  $df=1$ ,  $P=0.009$ ). In contrast, a significant inverse relationship was found between phosphorylation of TRP53 at serine 389 and  $\gamma$ H2ax levels in thymocytes of primed males ( $r=-0.99993$ ,  $t=-83.4874$ ,  $df=1$ ,  $P=0.007$ ) and

primed females ( $r=-0.9998$ ,  $t=64.759$ ,  $df=1$ ,  $P=0.009$ ). These findings suggest that the trigger to phosphorylate Trp53 at the serine 389 site in RAR might be regarded to reduced amounts of DSBs.

### *3.2. Maximal protein amounts of activated-p38MAPK and phosphoserine-389-Trp53 were found in radioadapted thymocytes*

*In vitro* studies using mouse epidermal cells have demonstrated that the p38 mitogen activated protein kinase (p38MAPK) physically associates with Trp53 to directly phosphorylate serine 389 [26]. Thus, we analyzed the pattern of expression of this protein kinase in our experimental conditions. As expected, expression of activated-p38MAPK was parallel to the amount of phosphoserine-389-Trp53, with highest levels of activated-p38MAPK detected in thymocytes of male primed mice as compared to those of females (Figure 2). In fact, a significant high correlation was observed between levels of phosphoserine 389 and activated-p38MAK in radioadapted thymocytes of males ( $r=0.99976$ ,  $t=46.5361$ ,  $df=1$ ,  $P=0.013$ ) and females ( $r=0.99979$ ,  $t=49.2148$ ,  $df=1$ ,  $P=0.012$ ). We also observed that activated-p38MAPK was down-regulated in thymocytes of non-primly mice. Our results are consistent with previous data obtained of primary mouse embryonic fibroblasts showing regulation of RAR by p38MAPK [26], and reveals for the first time, that increases in both activated-p38MAPK and phosphoserine-389-TRP53 are strongly correlated in RAR. Nevertheless, our data are not in agreement with previous evidence showing up-regulation of p38MAPK in mouse embryonic skin cells after low dose irradiation [27]. These discrepancies might be related to the cell type, since similar low dose irradiation conditions were used in both studies. On the other hand, it has been suggested that the *Trp53* gene is crucial in channeling apoptosis induced by miss- or non-repaired DSBs into a radioadaptive DSB repair pathway through signals triggered by p38MAPK [28]. Thus, phosphorylation of Trp53 at serine 389 might have an important role in this switching, since reduction of apoptosis and DSB formation were accompanied by increases of both p38MAPK and phosphoserine-389-Trp53 in RAR.

### *3.3. Transactivation of target genes by TRP53 does not play an essential role in the radioadaptive response of thymocytes*

Given the importance of *phosphoserine-389-Trp53* in RAR, we asked for a possible role of *Trp53* target gene transactivation in radioadapted thymocytes by

analyzing the *Trp53*-responsive *Puma* and *Bax* genes. *Puma* (encoding P53 Up-regulated Modulator of Apoptosis) and *Bax* (encoding the Bcl2-Associated X protein) are two key proapoptotic *Trp53* target genes whose products are localized at the mitochondria in response to IR exposure [29; 30]. Moreover, it has been demonstrated that Puma and Bax proteins play an essential role in caspase 3-mediated apoptosis of thymocytes after  $\gamma$ -irradiation exposure [19]. In this study, we observed an increase in the amount of Puma protein in radioadapted thymocytes as compared with the control situation, but did not find significant differences in Puma expression between irradiation treatments (Figure 3). These findings clearly indicate that transactivation of *Puma* is not essential for protection of thymocytes against apoptosis in the radioadaptive response. On the other hand, basal levels of Bax, that is absolutely required for Puma-mediated apoptosis after IR exposure [31], were found in all of the examined experimental conditions, suggesting that Bax is not necessary to undergo thymocyte apoptosis in response to IR.

The cell cycle inhibitor  $p21^{Cdkn1a}$  gene is also directly stimulated by Trp53 and plays essential roles in DNA damage response not only by inducing cell cycle arrest but also by regulating apoptosis [32]. Since  $p21^{Cdkn1a}$  function can be regulated not only at transcriptional but also at post-translational level, we also analyzed the phosphorylated form of  $p21^{Cdkn1a}$  at threonine 145, which allows to inhibit apoptosis by interacting in the mitochondria with the pro-enzyme form of caspase 3 [33]. No induction or accumulation of both  $p21^{Cdkn1a}$  and phosphothreonine-145- $p21^{Cdkn1a}$  was found in radioadapted thymocytes.

#### 4. Conclusions

In summary, the results of this work suggest for the first time a protective effect against apoptosis and DSB formation for phosphoserine-389-Trp53 in the radioadaptive response of mouse thymocytes. Our findings also suggest that Trp53 might be phosphorylated at serine 389 by p38MAPK, since concomitant overexpression of these two proteins was found to be associated with RAR. Finally, phosphoserine-389-Trp53 might promote induction of apoptosis by mechanisms involving transcription-independent signaling rather than target gene regulation.

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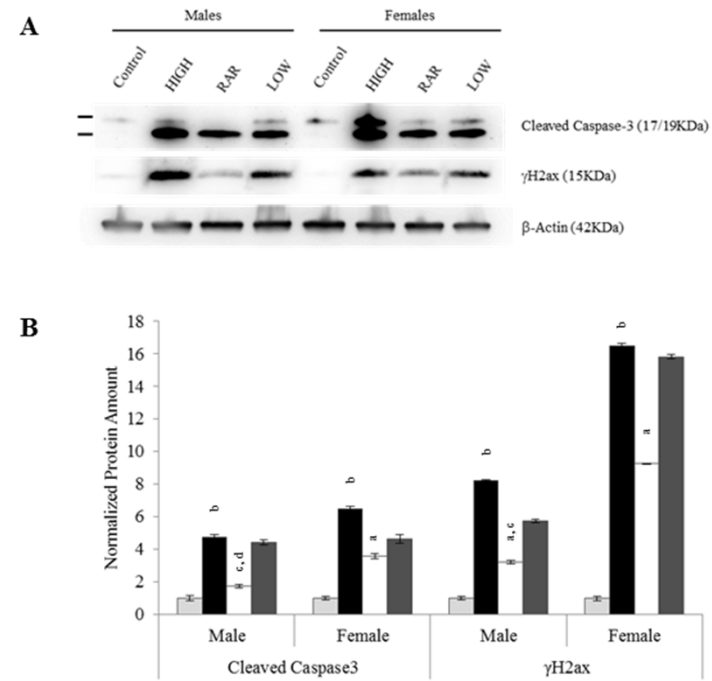


Figure 1

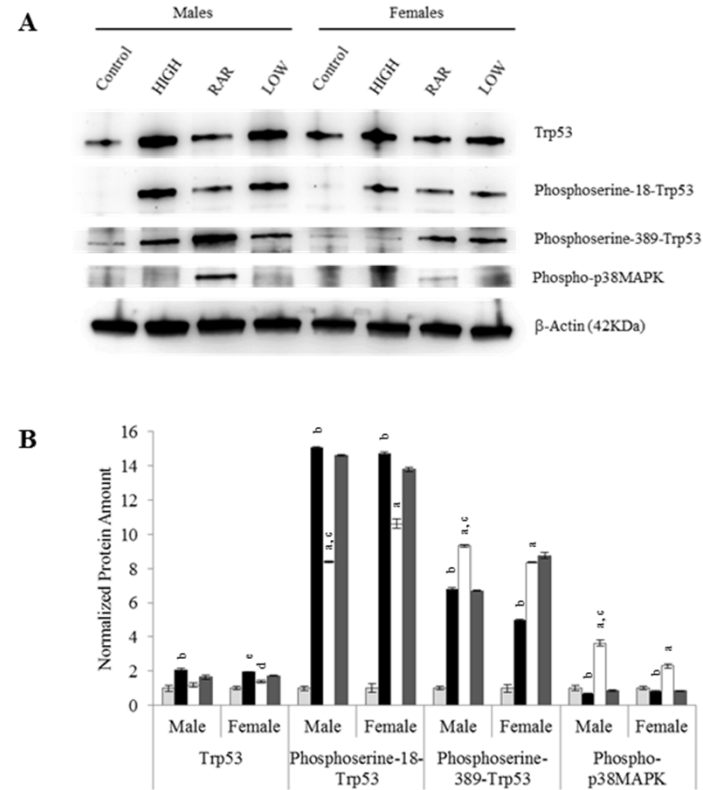


Figure 2



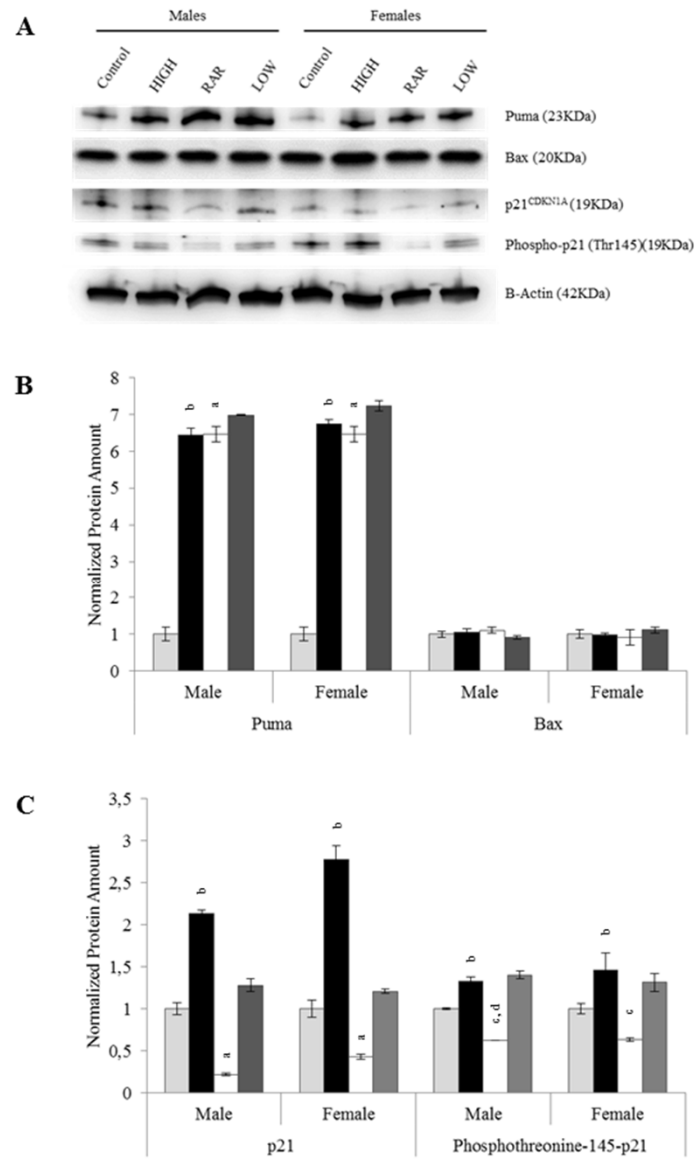


Figure 3

**Figure 1.** Adaptive response of thymocyte apoptosis and DSB formation induced by priming low dose X-ray irradiation in C57BL/6 mice.

(A) Representative results of the Western blotting assay for the expressions of cleaved caspase 3 and  $\gamma$ H2ax. (B) Quantitative analysis of cleaved caspase 3 and  $\gamma$ H2ax expression. Amount of each protein was first normalized to  $\beta$ -actin, and then the ratio of each normalized value to its corresponding non-irradiated control value was calculated. Histograms represent the mean  $\pm$  SD of normalized values obtained from three independent experiments. Light gray columns, non-irradiated thymocytes. Black columns, thymocytes exposed to 1.75Gy of  $\gamma$ -rays. Open columns, thymocytes treated with priming low dose X-irradiation (0.075Gy) six hours before challenging high dose  $\gamma$ -irradiation (1.75Gy). Dark gray columns, thymocytes exposed to 0.075Gy of X-rays. Statistically significant differences between the experimental groups were determined by a one-way ANOVA with a Bonferroni multiple comparison test. <sup>a</sup>*P* <0.0001, compared with the corresponding value of non-treated thymocytes; <sup>b</sup>*P* <0.0001, compared with the corresponding value of radioadapted thymocytes; <sup>c</sup>*P* <0.0001, compared with the corresponding value of radioadapted thymocytes of females.

**Figure 2.** Increased levels of phosphoserine-389-TRP53 and activated-p38MAPK after priming low dose X-ray irradiation in thymocytes of C57BL/6 mice.

(A) Representative Western blots for the expressions of TRP53, its phosphorylated forms at serine 18 and serine 389, and phospho-(Thr180/Tyr182)-p38MAPK. (B) Quantitative data showing normalized relative amounts of TRP53, phosphoserine-18-TRP53, phosphoserine-389-TRP53 and phospho-(Thr180/Tyr182)-p38MAPK under three distinct irradiation conditions. *Columns*, mean of three independent experiments; *bars*, SD. Light gray histograms, non-treated thymocytes. Black histograms, thymocytes exposed to high dose (1.75Gy)  $\gamma$ -irradiation. Open histograms, thymocytes exposed to the adaptive regimen of radiation. Dark gray histograms, thymocytes treated with low dose X-irradiation (0.075Gy). Statistically significant differences were determined by a one-way ANOVA with a Bonferroni post test. <sup>a</sup>*P* <0.0001, compared with the corresponding value of non-treated thymocytes; <sup>b</sup>*P* <0.0001, compared with the corresponding value of radioadapted thymocytes; <sup>c</sup>*P* <0.0001, compared with the corresponding value of radioadapted thymocytes of females; <sup>d</sup>*P* <0.035, compared with the corresponding value of non-treated thymocytes; <sup>e</sup>*P* <0.01, compared with the corresponding value of radioadapted thymocytes.

**Figure 3.** The *Trp53*-target genes *Puma*, *Bax* and *p21<sup>CDKN1A</sup>* do not play an essential role in the radioadaptive response of thymocytes.

(A) Representative experiment of Western blots using antibodies against the proapoptotic PUMA and BAX proteins, p21<sup>CDKN1A</sup> and its phosphorylated form at threonine 145. (B) Normalized expression values of PUMA and BAX proteins (Plot B), and of p21<sup>CDKN1A</sup> and phosphothreonine-145-p21<sup>CDKN1A</sup> (Plot C) under three distinct regimens of radiation exposure. Normalized expression values are expressed as means  $\pm$  SD. Light gray columns, no treatment. Black columns, 1.75Gy of  $\gamma$ -irradiation. Open columns, 0.075Gy + 1.75Gy, 6 h interval. Dark gray columns, 0.075Gy of X-rays. Statistically significant differences were determined by a one-way ANOVA with a Bonferroni post test. <sup>a</sup>*P* <0.0001, compared with the corresponding value of non-treated thymocytes; <sup>b</sup>*P* <0.0001, compared with the corresponding value of radioadapted thymocytes; <sup>c</sup>*P* <0.02, compared with the corresponding value of non-treated thymocytes; <sup>d</sup>*P* <0.0001, compared with the corresponding value of radioadapted thymocytes of females.

## Anexo 1

Resultados del t-test moderado con corrección por comparaciones múltiples para los 625 genes expresados diferencialmente ( $P$ -valor  $\leq 0.05$ ) no relacionados con las funciones biológicas del Trp53, tanto en machos (azul) como en hembras (rojo).

ID	logFC	t	P-valor ajustado	Gen	Descripción
A_51_P303160	5,38	7,70	0,0026	Arg1	Mus musculus arginase, liver (Arg1), mRNA [NM_007482]
A_55_P2016462	4,42	14,61	0,0002	Cxcl10	Mus musculus chemokine (C-X-C motif) ligand 10 (Cxcl10), mRNA [NM_021274]
A_52_P670026	4,31	11,30	0,0005	Rsad2	Mus musculus radical S-adenosyl methionine domain containing 2 (Rsad2), mRNA [NM_021384]
A_51_P322640	4,20	13,76	0,0002	Ccl24	Mus musculus chemokine (C-C motif) ligand 24 (Ccl24), mRNA [NM_019577]
A_55_P2016459	3,90	7,78	0,0025	Cxcl10	Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830106P05 product:unclassifiable, full insert sequence. [AK156907]
A_51_P436652	3,60	14,82	0,0002	Ccl7	Mus musculus chemokine (C-C motif) ligand 7 (Ccl7), mRNA [NM_013654]
A_51_P183812	3,51	6,67	0,0047	Slfn4	Mus musculus schlafen 4 (Slfn4), mRNA [NM_011410]
A_55_P2071176	3,27	4,42	0,0252	Il1f9	Mus musculus interleukin 1 family, member 9 (Il1f9), mRNA [NM_153511]
A_55_P2282421	3,24	6,43	0,0056	4933432103Rik	Mus musculus RIKEN cDNA 4933432103 gene (4933432103Rik), long non-coding RNA [NR_045657]
A_55_P2172396	3,18	5,06	0,0148	A530064D06Rik	Mus musculus RIKEN cDNA A530064D06 gene (A530064D06Rik), transcript variant 1, mRNA [NM_178796]
A_55_P1984556	3,15	13,73	0,0002	Ccl12	Mus musculus chemokine (C-C motif) ligand 12 (Ccl12), mRNA [NM_011331]
A_55_P1988108	3,12	11,76	0,0004	Mrc1	Mus musculus mannose receptor, C type 1 (Mrc1), mRNA [NM_008625]
A_51_P123625	3,08	8,61	0,0016	Irg1	Mus musculus immunoresponsive gene 1 (Irg1), mRNA [NM_008392]
A_52_P186937	3,03	10,63	0,0006	Cmpk2	Mus musculus cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial (Cmpk2), mRNA [NM_020557]
A_51_P488739	2,99	5,97	0,0076	Hcar2	Mus musculus hydroxycarboxylic acid receptor 2 (Hcar2), mRNA [NM_030701]
A_55_P2008740	2,95	6,42	0,0056	Fcgr1	Mus musculus Fc receptor, IgG, high affinity I (Fcgr1), mRNA [NM_010186]
A_66_P117933	2,95	5,50	0,0106	I830012016Rik	Mus musculus RIKEN cDNA I830012016 gene (I830012016Rik), mRNA [NM_001005858]
A_51_P291417	2,94	7,09	0,0036	Thbd	Mus musculus thrombomodulin (Thbd), mRNA [NM_009378]
A_51_P149714	2,87	9,41	0,0010	Ms4a6d	Mus musculus membrane-spanning 4-domains, subfamily A, member 6D (Ms4a6d), mRNA [NM_026835]
A_55_P2086433	2,82	12,96	0,0003	Oasl1	Mus musculus 2'-5' oligoadenylate synthetase-like 1 (Oasl1), mRNA [NM_145209]
A_51_P286737	2,81	13,94	0,0002	Ccl2	Mus musculus chemokine (C-C motif) ligand 2 (Ccl2), mRNA [NM_011333]
A_51_P509573	2,81	9,51	0,0010	Ccl4	Mus musculus chemokine (C-C motif) ligand 4 (Ccl4), mRNA [NM_013652]
A_55_P2066578	2,79	10,44	0,0006	Ifi204	PREDICTED: Mus musculus interferon activated gene 204 (Ifi204), transcript variant X1, mRNA [XM_006497295]
A_51_P223569	2,76	6,38	0,0058	Ddx4	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 4 (Ddx4), transcript variant 2, mRNA [NM_010029]
A_55_P2045040	2,76	6,87	0,0041	F7	Mus musculus coagulation factor VII (F7), mRNA [NM_010172]
A_52_P161237	2,74	3,95	0,0370	Cpa1	Mus musculus carboxypeptidase A1, pancreatic (Cpa1), mRNA [NM_025350]
A_55_P1994862	2,69	5,17	0,0138	Ddx60	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 (Ddx60), mRNA [NM_001081215]
A_55_P2114953	2,69	12,16	0,0004	Usp18	Mus musculus ubiquitin specific peptidase 18 (Usp18), mRNA [NM_011909]
A_52_P15461	2,69	4,93	0,0166	Il15	Mus musculus interleukin 15 (Il15), transcript variant 1, mRNA [NM_008357]
A_51_P410681	2,68	4,12	0,0327	Irx5	Mus musculus Iroquois related homeobox 5 (Drosophila) (Irx5), mRNA [NM_018826]
A_55_P2108255	2,66	15,71	0,0002	Lgmn	Mus musculus legumain (Lgmn), mRNA [NM_011175]
A_52_P220879	2,64	11,97	0,0004	Tgm2	Mus musculus transglutaminase 2, C polypeptide (Tgm2), mRNA [NM_009373]
A_55_P2158404	2,64	5,63	0,0096	Cmpk2	Mus musculus cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial (Cmpk2), mRNA [NM_020557]
A_51_P327751	2,63	11,27	0,0005	Ifit1	Mus musculus interferon-induced protein with tetratricopeptide repeats 1 (Ifit1), mRNA [NM_008331]

A_55_P2103698	2,63	11,23	0,0005	Isg15	Mus musculus ISG15 ubiquitin-like modifier (Isg15), mRNA [NM_015783]
A_55_P2152771	2,62	12,37	0,0004	Lhfpl2	Mus musculus lipoma HMGIC fusion partner-like 2 (Lhfpl2), mRNA [NM_172589]
A_55_P1954378	2,62	4,52	0,0232	Nrn1	PREDICTED: Mus musculus neuritin 1 (Nrn1), transcript variant X1, mRNA [XM_006516738]
A_51_P464703	2,61	10,48	0,0006	Ccl8	Mus musculus chemokine (C-C motif) ligand 8 (Ccl8), mRNA [NM_021443]
A_55_P1972872	2,60	9,48	0,0010	I830012016 Rik	Mus musculus RIKEN cDNA I830012016 gene (I830012016Rik), mRNA [NM_001005858]
A_51_P514085	2,59	11,21	0,0005	Mx2	Mus musculus myxovirus (influenza virus) resistance 2 (Mx2), transcript variant 1, mRNA [NM_013606]
A_51_P184484	2,59	4,06	0,0339	Mmp13	Mus musculus matrix metalloproteinase 13 (Mmp13), mRNA [NM_008607]
A_51_P238722	2,58	19,26	0,0001	Cd93	Mus musculus CD93 antigen (Cd93), mRNA [NM_010740]
A_55_P1953387	2,57	16,50	0,0001	Fabp5	Mus musculus fatty acid binding protein 5, epidermal (Fabp5), transcript variant 2, mRNA [NM_001272097]
A_55_P1998943	2,56	11,08	0,0005	Oas1a	Mus musculus 2'-5' oligoadenylate synthetase 1A (Oas1a), mRNA [NM_145211]
A_55_P1991812	2,56	5,10	0,0145	Gm5431	Mus musculus predicted gene 5431 (Gm5431), mRNA [NM_001024230]
A_52_P586004	2,55	12,41	0,0004	Hk3	Mus musculus hexokinase 3 (Hk3), transcript variant 1, mRNA [NM_001033245]
A_52_P308413	2,54	4,41	0,0256	I810011H11 Rik	Mus musculus RIKEN cDNA I810011H11 gene (I810011H11Rik), mRNA [NM_001163616]
A_52_P700056	2,53	11,86	0,0004	Wfdc17	Mus musculus WAP four-disulfide core domain 17 (Wfdc17), mRNA [NM_001081957]
A_52_P233811	2,52	7,82	0,0024	B430306N03 Rik	Mus musculus RIKEN cDNA B430306N03 gene (B430306N03Rik), mRNA [NM_177083]
A_51_P383032	2,50	7,71	0,0026	Clec4d	Mus musculus C-type lectin domain family 4, member d (Clec4d), transcript variant 1, mRNA [NM_010819]
A_66_P128537	2,50	10,50	0,0006	Isg15	Mus musculus ISG15 ubiquitin-like modifier (Isg15), mRNA [NM_015783]
A_55_P2015687	2,49	10,83	0,0006	Phf11d	Mus musculus PHD finger protein 11D (Phf11d), mRNA [NM_199015]
A_55_P2037121	2,46	16,19	0,0001	Tmem106a	Mus musculus transmembrane protein 106A (Tmem106a), mRNA [NM_144830]
A_51_P101985	2,46	4,73	0,0193	Ccdc85a	coiled-coil domain containing 85A [Source:MGI Symbol;Acc:MGI:2445069] [ENSMUST00000109501]
A_55_P2177073	2,46	7,91	0,0023	LOC102641688	PREDICTED: Mus musculus interferon-activable protein 204-like (LOC102641688), mRNA [XM_006544649]
A_55_P2017636	2,45	5,30	0,0123	Thbs1	Mus musculus thrombospondin 1 (Thbs1), mRNA [NM_011580]
A_55_P2031989	2,45	13,40	0,0003	Rin2	Mus musculus Ras and Rab interactor 2 (Rin2), mRNA [NM_028724]
A_52_P142888	2,45	5,99	0,0075	Clec5a	Mus musculus C-type lectin domain family 5, member a (Clec5a), transcript variant 1, mRNA [NM_001038604]
A_55_P2118441	2,43	9,55	0,0010	Mx1	Mus musculus myxovirus (influenza virus) resistance 1 (Mx1), mRNA [NM_010846]
A_51_P112734	2,42	10,36	0,0006	Slc7a8	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (Slc7a8), mRNA [NM_016972]
A_55_P1975560	2,41	11,07	0,0005	Ifi204	Mus musculus interferon activated gene 204 (Ifi204), mRNA [NM_008329]
A_55_P2139181	2,40	5,44	0,0111	Cald1	Mus musculus caldesmon 1 (Cald1), mRNA [NM_145575]
A_51_P185660	2,40	9,07	0,0012	Ccl9	Mus musculus chemokine (C-C motif) ligand 9 (Ccl9), mRNA [NM_011338]
A_51_P159503	2,39	11,96	0,0004	Rnf213	ring finger protein 213 [Source:MGI Symbol;Acc:MGI:1289196] [ENSMUST00000093902]
A_51_P262515	2,39	10,74	0,0006	Phf11a	Mus musculus PHD finger protein 11A (Phf11a), mRNA [NM_172603]
A_51_P241843	2,37	5,86	0,0082	Tmem202	Mus musculus transmembrane protein 202 (Tmem202), mRNA [NM_178388]
A_55_P2019719	2,37	10,55	0,0006	Oas2	Mus musculus 2'-5' oligoadenylate synthetase 2 (Oas2), mRNA [NM_145227]
A_55_P2034110	2,35	12,75	0,0003	Tgm2	Mus musculus transglutaminase 2, C polypeptide (Tgm2), mRNA [NM_009373]
A_51_P167292	2,34	5,40	0,0114	Chil3	Mus musculus chitinase-like 3 (Chil3), mRNA [NM_009892]
A_51_P161021	2,33	8,09	0,0021	Ifit2	Mus musculus interferon-induced protein with tetratricopeptide repeats 2 (Ifit2), mRNA [NM_008332]
A_51_P174961	2,32	7,95	0,0023	F10	Mus musculus coagulation factor X (F10), transcript variant 2, mRNA [NM_007972]
A_51_P115005	2,29	5,06	0,0148	Edn1	Mus musculus endothelin 1 (Edn1), mRNA [NM_010104]
A_55_P2289040	2,28	4,59	0,0219	AI429363	UI-M-FY0-cgr-m-18-0-ULr1 NIH_BMAP_FY0 Mus musculus cDNA clone IMAGE:30363281 5', mRNA sequence [CF532098]
A_55_P2077368	2,28	5,20	0,0135	Dpep2	Mus musculus dipeptidase 2 (Dpep2), mRNA [NM_176913]
A_51_P387123	2,28	11,34	0,0005	Oasl2	Mus musculus 2'-5' oligoadenylate synthetase-like 2 (Oasl2), mRNA [NM_011854]
A_51_P154842	2,28	11,21	0,0005	Oas1f	Mus musculus 2'-5' oligoadenylate synthetase 1F (Oas1f), mRNA [NM_145153]
A_55_P2072120	2,27	3,94	0,0374	AW011738	Mus musculus expressed sequence AW011738 (AW011738), long non-coding RNA [NR_030671]
A_55_P2017681	2,27	6,00	0,0075	C5ar1	Mus musculus complement component 5a receptor 1 (C5ar1), transcript variant 2, mRNA [NM_001173550]
A_55_P2038882	2,26	4,24	0,0292	Hcar2	Mus musculus hydroxycarboxylic acid receptor 2 (Hcar2), mRNA [NM_030701]
A_51_P130095	2,26	12,01	0,0004	Fcgr2b	Mus musculus Fc receptor, IgG, low affinity IIb (Fcgr2b), transcript variant 1, mRNA [NM_001077189]
A_55_P1958165	2,26	13,31	0,0003	Ms4a7	Mus musculus membrane-spanning 4-domains, subfamily A, member 7 (Ms4a7), transcript variant 3, mRNA [NM_001276398]

A_55_P2075200	2,25	14,67	0,0002	Tor3a	Mus musculus torsin family 3, member A (Tor3a), mRNA [NM_023141]
A_55_P1977473	2,25	8,41	0,0018	Dab2	Mus musculus disabled 2, mitogen-responsive phosphoprotein (Dab2), transcript variant 1, mRNA [NM_023118]
A_55_P1962918	2,23	7,95	0,0023	Mnda	Mus musculus myeloid cell nuclear differentiation antigen (Mnda), mRNA [NM_001033450]
A_55_P2139396	2,22	5,33	0,0120	Unc45b	Mus musculus unc-45 homolog B (C. elegans) (Unc45b), mRNA [NM_178680]
A_52_P607128	2,22	8,63	0,0016	Msr1	Mus musculus macrophage scavenger receptor 1 (Msr1), transcript variant 1, mRNA [NM_031195]
A_51_P413866	2,22	7,98	0,0022	Cfb	Mus musculus complement factor B (Cfb), transcript variant 1, mRNA [NM_008198]
A_55_P1962400	2,22	5,28	0,0125	Il1rn	Mus musculus interleukin 1 receptor antagonist (Il1rn), transcript variant 2, mRNA [NM_001039701]
A_51_P316553	2,21	7,16	0,0035	Kdr	Mus musculus kinase insert domain protein receptor (Kdr), mRNA [NM_010612]
A_52_P596008	2,21	9,34	0,0011	Zeb2	Mus musculus zinc finger E-box binding homeobox 2 (Zeb2), transcript variant 2, mRNA [NM_015753]
A_51_P189361	2,19	10,98	0,0006	Osgin1	Mus musculus oxidative stress induced growth inhibitor 1 (Osgin1), mRNA [NM_027950]
A_55_P2052385	2,19	7,71	0,0026	Gbp6	Mus musculus guanylate binding protein 6 (Gbp6), mRNA [NM_194336]
A_51_P139349	2,17	3,91	0,0385	1700012P22 Rik	Mus musculus RIKEN cDNA 1700012P22 gene (1700012P22Rik), mRNA [NM_027056]
A_51_P359570	2,16	14,27	0,0002	Ifit3	Mus musculus interferon-induced protein with tetratricopeptide repeats 3 (Ifit3), mRNA [NM_010501]
A_55_P2160837	2,16	3,77	0,0441	Gja8	Mus musculus gap junction protein, alpha 8 (Gja8), mRNA [NM_008123]
A_52_P658320	2,15	4,69	0,0199	Mfsd7a	Mus musculus major facilitator superfamily domain containing 7A (Mfsd7a), mRNA [NM_172883]
A_51_P212754	2,15	13,92	0,0002	Tgfb1	Mus musculus transforming growth factor, beta induced (Tgfb1), mRNA [NM_009369]
A_55_P2169669	2,14	6,60	0,0049	Csf1	Mus musculus colony stimulating factor 1 (macrophage) (Csf1), transcript variant 3, mRNA [NM_00113530]
A_55_P2081105	2,13	9,13	0,0012	Al607873	Mus musculus expressed sequence Al607873 (Al607873), mRNA [NM_001204910]
A_51_P375146	2,13	3,78	0,0436	Cd36	Mus musculus CD36 antigen (Cd36), transcript variant 2, mRNA [NM_007643]
A_51_P487690	2,13	7,25	0,0034	Ifi44	Mus musculus interferon-induced protein 44 (Ifi44), mRNA [NM_133871]
A_55_P2038262	2,13	11,85	0,0004	Phf11b	Mus musculus PHD finger protein 11B (Phf11b), mRNA [NM_001164327]
A_55_P2171116	2,13	16,26	0,0001	Lgals3	Mus musculus lectin, galactose binding, soluble 3 (Lgals3), transcript variant 1, mRNA [NM_001145953]
A_55_P2005783	2,12	9,29	0,0011	Ifih1	Mus musculus interferon induced with helicase C domain 1 (Ifih1), transcript variant 1, mRNA [NM_027835]
A_66_P120249	2,11	17,60	0,0001	Nr1h3	Mus musculus nuclear receptor subfamily 1, group H, member 3 (Nr1h3), transcript variant 1, mRNA [NM_013839]
A_51_P304170	2,11	10,55	0,0006	Rtp4	Mus musculus receptor transporter protein 4 (Rtp4), mRNA [NM_023386]
A_55_P1999213	2,10	11,07	0,0005	Tdrd7	Mus musculus tudor domain containing 7 (Tdrd7), transcript variant 1, mRNA [NM_001290475]
A_55_P2380900	2,09	4,48	0,0239	2310014F06 Rik	Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230398F15 product:unclassifiable, full insert sequence. [AK046490]
A_51_P214747	2,09	8,45	0,0017	Parp12	Mus musculus poly (ADP-ribose) polymerase family, member 12 (Parp12), mRNA [NM_172893]
A_52_P526379	2,08	4,82	0,0180	Stx3	Mus musculus syntaxin 3 (Stx3), transcript variant B, mRNA [NM_001025307]
A_51_P117865	2,08	8,74	0,0015	Fam20c	Mus musculus family with sequence similarity 20, member C (Fam20c), mRNA [NM_030565]
A_51_P165182	2,08	6,64	0,0048	Batf2	Mus musculus basic leucine zipper transcription factor, ATF-like 2 (Batf2), mRNA [NM_028967]
A_55_P2049867	2,07	7,55	0,0028	Ccr12	Mus musculus chemokine (C-C motif) receptor-like 2 (Ccr12), mRNA [NM_017466]
A_66_P101942	2,07	12,33	0,0004	Gm9706	PREDICTED: Mus musculus predicted gene 9706 (Gm9706), misc_RNA [XR_168557]
A_51_P159453	2,06	4,70	0,0197	Serpina3n	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3N (Serpina3n), mRNA [NM_009252]
A_55_P2067362	2,06	9,02	0,0013	Dpep2	dipeptidase 2 [Source:MGI Symbol;Acc:MGI:2442042] [ENSMUST00000034373]
A_52_P117393	2,06	8,25	0,0019	Tlr6	Mus musculus toll-like receptor 6 (Tlr6), mRNA [NM_011604]
A_55_P2104259	2,05	4,07	0,0338	Plin5	Mus musculus perilipin 5 (Plin5), transcript variant 2, mRNA [NM_001077348]
A_51_P144180	2,04	4,95	0,0163	Ifnb1	Mus musculus interferon beta 1, fibroblast (Ifnb1), mRNA [NM_010510]
A_52_P494930	2,04	14,05	0,0002	Fnip2	Mus musculus folliculin interacting protein 2 (Fnip2), mRNA [NM_001162999]
A_55_P2166833	2,04	6,55	0,0051	Ms4a14	PREDICTED: Mus musculus membrane-spanning 4-domains, subfamily A, member 14 (Ms4a14), transcript variant X1, mRNA [XM_006527509]
A_55_P1998942	2,04	10,90	0,0006	Oas1a	Mus musculus 2'-5' oligoadenylate synthetase 1A (Oas1a), mRNA [NM_145211]
A_55_P2074688	2,04	3,64	0,0496	Hoxc4	Mus musculus homeobox C4 (Hoxc4), mRNA [NM_013553]
A_55_P2128597	2,03	11,90	0,0004	Nr1h3	Mus musculus nuclear receptor subfamily 1, group H, member 3 (Nr1h3), transcript variant 1, mRNA [NM_013839]
A_51_P241457	2,02	9,37	0,0010	Lilrb4	Mus musculus leukocyte immunoglobulin-like receptor, subfamily B, member 4 (Lilrb4), transcript variant 1, mRNA [NM_013532]
A_55_P2173210	2,02	9,40	0,0010	Gm16340	PREDICTED: Mus musculus predicted gene 16340 (Gm16340), mRNA [XM_006497081]
A_51_P181517	2,02	6,58	0,0050	Fcgr4	Mus musculus Fc receptor, IgG, low affinity IV (Fcgr4), mRNA [NM_144559]

A_55_P2077706	2,02	4,97	0,0160	Vmn2r5	Mus musculus vomeronasal 2, receptor 5 (Vmn2r5), mRNA [NM_001104618]
A_51_P421876	2,01	9,54	0,0010	Irf7	Mus musculus interferon regulatory factor 7 (Irf7), transcript variant 1, mRNA [NM_016850]
A_66_P105046	2,00	6,93	0,0039	Il18	Mus musculus interleukin 18 (Il18), mRNA [NM_008360]
A_55_P2025721	2,00	5,66	0,0094	Adam3	Mus musculus a disintegrin and metallopeptidase domain 3 (cyrtestin) (Adam3), mRNA [NM_009619]
A_55_P2130178	1,99	7,19	0,0034	Fn1	Mus musculus fibronectin 1 (Fn1), transcript variant 1, mRNA [NM_010233]
A_51_P465148	1,98	16,11	0,0001	Ctsb	Mus musculus cathepsin B (Ctsb), mRNA [NM_007798]
A_52_P625624	1,97	5,85	0,0083	Stau2	Mus musculus staufer (RNA binding protein) homolog 2 (Drosophila) (Stau2), transcript variant 3, mRNA [NM_025303]
A_66_P124179	1,97	4,58	0,0221	Atp6v0d2	Mus musculus ATPase, H+ transporting, lysosomal V0 subunit D2 (Atp6v0d2), mRNA [NM_175406]
A_52_P467389	1,97	8,99	0,0013	Slc15a3	Mus musculus solute carrier family 15, member 3 (Slc15a3), mRNA [NM_023044]
A_66_P117201	1,97	3,98	0,0364	Fgf4	Mus musculus fibroblast growth factor 4 (Fgf4), mRNA [NM_010202]
A_52_P127130	1,96	4,87	0,0174	Msr1	Mus musculus macrophage scavenger receptor 1 (Msr1), transcript variant 1, mRNA [NM_031195]
A_51_P485260	1,96	14,60	0,0002	Rgl1	Mus musculus ral guanine nucleotide dissociation stimulator, like 1 (Rgl1), mRNA [NM_016846]
A_55_P2175146	1,96	3,80	0,0428	LOC102638466	PREDICTED: Mus musculus uncharacterized LOC102638466 (LOC102638466), ncRNA [XR_399068]
A_52_P380369	1,96	10,66	0,0006	Phf11d	Mus musculus DNA segment, Chr 14, ERATO Doi 668, expressed, mRNA (cDNA clone MGC:29273 IMAGE:5067268), complete cds. [BC030186]
A_55_P2173892	1,96	11,39	0,0005	Isg20	Mus musculus interferon-stimulated protein (Isg20), transcript variant 4, mRNA [NM_001291220]
A_55_P2076891	1,95	5,05	0,0150	A330050F15 Rik	Mus musculus RIKEN cDNA A330050F15 gene (A330050F15Rik), mRNA [NM_001145192]
A_51_P211998	1,95	4,37	0,0264	Sgms2	Mus musculus sphingomyelin synthase 2 (Sgms2), mRNA [NM_028943]
A_66_P112573	1,95	10,22	0,0007	Isg20	Mus musculus interferon-stimulated protein (Isg20), transcript variant 4, mRNA [NM_001291220]
A_55_P2063736	1,94	9,53	0,0010	Gp49a	Mus musculus glycoprotein 49 A (Gp49a), transcript variant 2, mRNA [NM_001291892]
A_55_P2106504	1,94	5,82	0,0085	Skor1	Mus musculus SKI family transcriptional corepressor 1 (Skor1), transcript variant 1, mRNA [NM_172446]
A_52_P483799	1,94	3,80	0,0425	Pydc4	Mus musculus pyrin domain containing 4 (Pydc4), transcript variant 1, mRNA [NM_001177349]
A_51_P405476	1,93	10,82	0,0006	Fcer1g	Mus musculus Fc receptor, IgE, high affinity 1, gamma polypeptide (Fcer1g), mRNA [NM_010185]
A_55_P2067518	1,93	5,10	0,0145	Slc13a3	Mus musculus solute carrier family 13 (sodium-dependent dicarboxylate transporter), member 3 (Slc13a3), mRNA [NM_054055]
A_51_P325281	1,93	8,36	0,0018	A1607873	Mus musculus expressed sequence A1607873 (A1607873), mRNA [NM_001204910]
A_66_P124806	1,93	7,01	0,0038	Tlr4	Mus musculus toll-like receptor 4 (Tlr4), mRNA [NM_021297]
A_51_P147274	1,93	5,81	0,0086	Clec4a3	Mus musculus C-type lectin domain family 4, member a3 (Clec4a3), transcript variant 1, mRNA [NM_153197]
A_55_P1966731	1,93	9,15	0,0012	Ifi203	Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]
A_51_P389988	1,92	6,12	0,0069	Slc40a1	Mus musculus solute carrier family 40 (iron-regulated transporter), member 1 (Slc40a1), mRNA [NM_016917]
A_51_P258372	1,92	10,83	0,0006	Igsf6	Mus musculus immunoglobulin superfamily, member 6 (Igsf6), mRNA [NM_030691]
A_51_P282557	1,92	7,49	0,0029	C3ar1	Mus musculus complement component 3a receptor 1 (C3ar1), mRNA [NM_009779]
A_55_P1988368	1,92	7,23	0,0034	Upp1	Mus musculus uridine phosphorylase 1 (Upp1), transcript variant 1, mRNA [NM_009477]
A_51_P499698	1,90	4,58	0,0221	Asprv1	Mus musculus aspartic peptidase, retroviral-like 1 (Asprv1), mRNA [NM_026414]
A_55_P1966833	1,89	9,90	0,0008	Xaf1	Mus musculus XIAP associated factor 1 (Xaf1), transcript variant 1, mRNA [NM_001037713]
A_51_P108108	1,89	3,63	0,0497	Lrrc25	Mus musculus leucine rich repeat containing 25 (Lrrc25), mRNA [NM_153074]
A_55_P1973593	1,89	3,64	0,0493	D630008014 Rik	Mus musculus 0 day neonate kidney cDNA, RIKEN full-length enriched library, clone:D630008014 product:hypothetical protein, full insert sequence. [AK085305]
A_55_P2005417	1,88	6,79	0,0044	4933434I20R ik	Mus musculus RIKEN cDNA 4933434I20 gene (4933434I20Rik), mRNA [NM_026233]
A_55_P2004761	1,88	3,96	0,0369	H2-Eb2	Mus musculus histocompatibility 2, class II antigen E beta2 (H2-Eb2), mRNA [NM_001033978]
A_55_P2068312	1,86	7,69	0,0026	Gm17019	Mus musculus predicted gene 17019 (Gm17019), mRNA [NM_182957]
A_52_P223809	1,86	8,06	0,0022	Dhx58	Mus musculus DEXH (Asp-Glu-X-His) box polypeptide 58 (Dhx58), mRNA [NM_030150]
A_55_P1998843	1,85	5,78	0,0086	Ifi203	Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]
A_55_P2044932	1,85	4,24	0,0293	Gpr84	Mus musculus G protein-coupled receptor 84 (Gpr84), mRNA [NM_030720]
A_55_P1954221	1,84	10,71	0,0006	Emp1	Mus musculus epithelial membrane protein 1 (Emp1), transcript variant 3, mRNA [NM_001288628]
A_66_P111090	1,84	4,79	0,0185	Sctr	Mus musculus secretin receptor (Sctr), mRNA [NM_001012322]
A_55_P2315012	1,83	4,27	0,0285	4930458D05 Rik	Mus musculus adult male bone cDNA, RIKEN full-length enriched library, clone:9830138L07 product:unclassifiable, full insert sequence. [AK036594]
A_52_P494730	1,83	5,63	0,0096	Gm12185	Mus musculus predicted gene 12185 (Gm12185), mRNA [NM_001045540]



A_51_P227165	1,83	4,52	0,0232	2310030G06 Rik	Mus musculus RIKEN cDNA 2310030G06 gene (2310030G06Rik), mRNA [NM_025865]
A_55_P2110925	1,83	4,32	0,0273	Flrt3	Mus musculus fibronectin leucine rich transmembrane protein 3 (Flrt3), transcript variant 1, mRNA [NM_001172160]
A_52_P559919	1,82	10,45	0,0006	Eif2ak2	Mus musculus eukaryotic translation initiation factor 2-alpha kinase 2 (Eif2ak2), mRNA [NM_011163]
A_55_P2053127	1,82	6,49	0,0054	Foxg1	Mus musculus forkhead box G1 (Foxg1), transcript variant 2, mRNA [NM_001160112]
A_55_P2094524	1,82	3,98	0,0364	Gm14005	Mus musculus predicted gene 14005 (Gm14005), transcript variant 2, long non-coding RNA [NR_028590]
A_51_P169693	1,81	12,29	0,0004	Bst2	Mus musculus bone marrow stromal cell antigen 2 (Bst2), mRNA [NM_198095]
A_55_P2024888	1,81	13,42	0,0003	Ctss	Mus musculus cathepsin S (Ctss), transcript variant 1, mRNA [NM_001267695]
A_65_P16680	1,81	12,98	0,0003	B4galt5	Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5 (B4galt5), mRNA [NM_019835]
A_52_P93467	1,80	18,11	0,0001	Sdc4	Mus musculus syndecan 4 (Sdc4), mRNA [NM_011521]
A_55_P2073024	1,80	5,32	0,0121	Gm4841	Mus musculus predicted gene 4841 (Gm4841), mRNA [NM_001034859]
A_51_P386794	1,79	4,85	0,0176	Myf6	Mus musculus myogenic factor 6 (Myf6), mRNA [NM_008657]
A_55_P2155931	1,79	6,55	0,0051	Tnfsf12Tnfsf13	Mus musculus Tnfsf12-Tnfsf13 readthrough transcript (Tnfsf12Tnfsf13), transcript variant 1, mRNA [NM_001034097]
A_55_P2092859	1,79	12,41	0,0004	Anxa4	Mus musculus annexin A4 (Anxa4), mRNA [NM_013471]
A_51_P257419	1,79	5,77	0,0087	Lhx2	Mus musculus LIM homeobox protein 2 (Lhx2), transcript variant 1, mRNA [NM_010710]
A_51_P272876	1,79	7,99	0,0022	Fam46a	Mus musculus family with sequence similarity 46, member A (Fam46a), transcript variant 1, mRNA [NM_001160378]
A_55_P2171658	1,78	6,35	0,0059	Stx3	Mus musculus syntaxin 3 (Stx3), transcript variant A, mRNA [NM_152220]
A_51_P275454	1,78	8,60	0,0016	Trim30a	Mus musculus tripartite motif-containing 30A (Trim30a), mRNA [NM_009099]
A_55_P2066463	1,78	4,52	0,0232	Enah	Mus musculus enabled homolog (Drosophila) (Enah), transcript variant 1, mRNA [NM_010135]
A_51_P126626	1,77	9,61	0,0010	Zfp503	Mus musculus zinc finger protein 503 (Zfp503), mRNA [NM_145459]
A_55_P2061170	1,77	9,36	0,0010	Tbc1d2	Mus musculus TBC1 domain family, member 2 (Tbc1d2), mRNA [NM_198664]
A_51_P105124	1,77	13,00	0,0003	P2ry6	Mus musculus pyrimidinergic receptor P2Y, G-protein coupled, 6 (P2ry6), mRNA [NM_183168]
A_66_P106388	1,77	7,69	0,0026	Ms4a4c	Mus musculus membrane-spanning 4-domains, subfamily A, member 4C (Ms4a4c), mRNA [NM_029499]
A_51_P195506	1,76	11,48	0,0005	Csf1	Mus musculus colony stimulating factor 1 (macrophage) (Csf1), transcript variant 1, mRNA [NM_007778]
A_55_P2063301	1,76	3,69	0,0474	Gm4763	PREDICTED: Mus musculus predicted gene 4763 (Gm4763), transcript variant X2, mRNA [XM_006539711]
A_51_P366138	1,76	4,84	0,0178	Mertk	Mus musculus c-mer proto-oncogene tyrosine kinase (Mertk), mRNA [NM_008587]
A_55_P2170034	1,76	11,46	0,0005	Rgl1	Mus musculus ral guanine nucleotide dissociation stimulator, like 1 (Rgl1), mRNA [NM_016846]
A_51_P448664	1,74	3,89	0,0391	Tbxas1	Mus musculus thromboxane A synthase 1, platelet (Tbxas1), mRNA [NM_011539]
A_66_P106132	1,73	5,56	0,0101	E030044B06 Rik	Mus musculus RIKEN cDNA E030044B06 gene (E030044B06Rik), long non-coding RNA [NR_045343]
A_51_P140710	1,73	8,74	0,0015	Ccl3	Mus musculus chemokine (C-C motif) ligand 3 (Ccl3), mRNA [NM_011337]
A_55_P2026688	1,73	8,41	0,0018	Rnf213	ring finger protein 213 [Source:MGI Symbol;Acc:MGI:1289196] [ENSMUST00000093902]
A_52_P321140	1,73	4,20	0,0303	Defb1	Mus musculus defensin beta 1 (Defb1), mRNA [NM_007843]
A_51_P126275	1,71	3,68	0,0476	Krt6b	Mus musculus keratin 6B (Krt6b), mRNA [NM_010669]
A_55_P2148439	1,71	5,47	0,0108	Gm15319	Mus musculus predicted gene 15319 (Gm15319), mRNA [NM_001177408]
A_51_P227392	1,71	7,09	0,0036	Rhou	Mus musculus ras homolog gene family, member U (Rhou), mRNA [NM_133955]
A_55_P1994927	1,71	12,44	0,0004	Rab3il1	Mus musculus RAB3A interacting protein (rabin3)-like 1 (Rab3il1), mRNA [NM_144538]
A_55_P2117656	1,70	8,18	0,0020	Slfn8	Mus musculus schlafen 8 (Slfn8), transcript variant 1, mRNA [NM_181545]
A_55_P2032853	1,70	4,37	0,0263	Entpd1	Mus musculus ectonucleoside triphosphate diphosphohydrolase 1 (Entpd1), mRNA [NM_009848]
A_51_P417854	1,70	6,87	0,0041	Rab20	Mus musculus RAB20, member RAS oncogene family (Rab20), mRNA [NM_011227]
A_66_P114335	1,70	6,08	0,0070	Olf1r1168	Mus musculus olfactory receptor 1168 (Olf1r1168), mRNA [NM_146531]
A_55_P2162562	1,69	5,20	0,0135	Gm6537	Mus musculus predicted gene 6537 (Gm6537), mRNA [NM_001195091]
A_55_P1966838	1,69	3,99	0,0361	Xaf1	Mus musculus XIAP associated factor 1 (Xaf1), transcript variant 1, mRNA [NM_001037713]
A_55_P2081164	1,68	8,05	0,0022	Cd300lf	Mus musculus CD300 antigen like family member F (Cd300lf), transcript variant 1, mRNA [NM_001169153]
A_55_P2033435	1,68	5,78	0,0087	1300002K09 Rik	Mus musculus RIKEN cDNA 1300002K09 gene (1300002K09Rik), mRNA [NM_028788]
A_52_P408757	1,68	6,40	0,0057	Fcgr3	Mus musculus Fc receptor, IgG, low affinity III (Fcgr3), mRNA [NM_010188]
A_51_P387235	1,67	10,42	0,0006	Nampt	Mus musculus nicotinamide phosphoribosyltransferase (Nampt), mRNA [NM_021524]
A_66_P118091	1,67	8,96	0,0013	Tor3a	Mus musculus torsin family 3, member A (Tor3a), mRNA [NM_023141]
A_55_P2022798	1,67	5,04	0,0151	Gm5751	PREDICTED: Mus musculus predicted gene 5751 (Gm5751), mRNA [XM_006544776]

A_51_P359636	1,66	8,67	0,0016	Lgals3bp	Mus musculus lectin, galactoside-binding, soluble, 3 binding protein (Lgals3bp), mRNA [NM_011150]
A_52_P422494	1,66	6,35	0,0059	Cd300lf	Mus musculus CD300 antigen like family member F (Cd300lf), transcript variant 2, mRNA [NM_145634]
A_55_P2001233	1,66	10,24	0,0007	Pydc3	Mus musculus pyrin domain containing 3 (Pydc3), mRNA [NM_001162938]
A_51_P186476	1,66	10,67	0,0006	Slc11a1	Mus musculus solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 (Slc11a1), mRNA [NM_013612]
A_55_P2041569	1,65	4,07	0,0339	Olfir855	Mus musculus olfactory receptor 855 (Olfir855), mRNA [NM_146524]
A_55_P2144556	1,65	6,06	0,0072	Flrt3	Mus musculus fibronectin leucine rich transmembrane protein 3 (Flrt3), transcript variant 1, mRNA [NM_001172160]
A_52_P679860	1,64	10,96	0,0006	Herc6	Mus musculus hect domain and RLD 6 (Herc6), mRNA [NM_025992]
A_51_P514712	1,64	7,87	0,0024	Parp14	Mus musculus poly (ADP-ribose) polymerase family, member 14 (Parp14), mRNA [NM_001039530]
A_52_P623511	1,64	4,06	0,0340	Gm3877	Mus musculus 10 days neonate cortex cDNA, RIKEN full-length enriched library, clone:A830008I04 product:unclassifiable, full insert sequence. [AK080592]
A_52_P199633	1,63	7,90	0,0024	Trim30d	Mus musculus tripartite motif-containing 30D (Trim30d), transcript variant 1, mRNA [NM_199146]
A_52_P327664	1,63	6,20	0,0065	Gbp5	Mus musculus guanylate binding protein 5 (Gbp5), mRNA [NM_153564]
A_52_P620448	1,62	4,08	0,0336	Mab211l	Mus musculus mab-21-like 1 (C. elegans) (Mab211l), mRNA [NM_010750]
A_55_P1982454	1,62	6,88	0,0041	Eps8	Mus musculus epidermal growth factor receptor pathway substrate 8 (Eps8), transcript variant 1, mRNA [NM_007945]
A_55_P2118037	1,62	10,80	0,0006	Sirpa	Mus musculus signal-regulatory protein alpha (Sirpa), transcript variant 4, mRNA [NM_001291019]
A_55_P2017914	1,62	8,58	0,0016	Csf1	Mus musculus colony stimulating factor 1 (macrophage) (Csf1), transcript variant 3, mRNA [NM_001113530]
A_51_P362066	1,62	5,98	0,0076	Chil1	Mus musculus chitinase-like 1 (Chil1), mRNA [NM_007695]
A_51_P438967	1,62	9,43	0,0010	Gpnmb	Mus musculus glycoprotein (transmembrane) nmb (Gpnmb), mRNA [NM_053110]
A_55_P2243431	1,61	10,58	0,0006	Gdap10	Mus musculus ganglioside-induced differentiation-associated-protein 10 (Gdap10), long non-coding RNA [NR_045032]
A_66_P139683	1,61	7,01	0,0038	Zbp1	Mus musculus Z-DNA binding protein 1 (Zbp1), transcript variant 1, mRNA [NM_021394]
A_55_P2068459	1,61	5,06	0,0148	Hspa1a	Mus musculus heat shock protein 1A (Hspa1a), mRNA [NM_010479]
A_55_P1971006	1,61	5,24	0,0130	Urah	Mus musculus urate (5-hydroxyiso-) hydrolase (Urah), mRNA [NM_029821]
A_51_P320852	1,61	11,81	0,0004	Cd9	Mus musculus CD9 antigen (Cd9), mRNA [NM_007657]
A_66_P100586	1,61	6,76	0,0045	4930599N23 Rik	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630054A15 product:Hypothetical arginine-rich region containing protein, full insert sequence. [AK042039]
A_51_P228768	1,60	4,56	0,0224	Slfn3	Mus musculus schlafen 3 (Slfn3), mRNA [NM_011409]
A_52_P472324	1,60	8,03	0,0022	Slpi	Mus musculus secretory leukocyte peptidase inhibitor (Slpi), mRNA [NM_011414]
A_55_P2047275	1,60	5,54	0,0103	Tspan7	Mus musculus tetraspanin 7 (Tspan7), mRNA [NM_019634]
A_52_P642239	1,60	4,30	0,0280	Pik3ap1	Mus musculus phosphoinositide-3-kinase adaptor protein 1 (Pik3ap1), mRNA [NM_031376]
A_55_P1961943	1,60	11,88	0,0004	Cd68	Mus musculus CD68 antigen (Cd68), transcript variant 1, mRNA [NM_001291058]
A_55_P2274370	1,59	3,97	0,0367	A630023A22 Rik	Mus musculus RIKEN cDNA A630023A22 gene (A630023A22Rik), mRNA [NM_001251843]
A_51_P246653	1,58	6,05	0,0073	Clec7a	Mus musculus C-type lectin domain family 7, member a (Clec7a), mRNA [NM_020008]
A_51_P381988	1,58	3,64	0,0495	Hmx1	Mus musculus H6 homeobox 1 (Hmx1), mRNA [NM_010445]
A_55_P2040723	1,58	6,30	0,0061	Dnali1	Mus musculus dynein, axonemal, light intermediate polypeptide 1 (Dnali1), mRNA [NM_175223]
A_55_P2038130	1,57	3,99	0,0361	Ptprj	Mus musculus protein tyrosine phosphatase, receptor type, J (Ptprj), transcript variant 1, mRNA [NM_008982]
A_52_P338605	1,57	4,24	0,0293	Gm6639	Mus musculus predicted gene 6639 (Gm6639), long non-coding RNA [NR_040748]
A_51_P232371	1,57	9,82	0,0008	Stab1	Mus musculus stabilin 1 (Stab1), mRNA [NM_138672]
A_55_P2176838	1,56	11,80	0,0004	Mitf	Mus musculus micropthalmia-associated transcription factor (Mitf), transcript variant 1, mRNA [NM_001113198]
A_66_P119034	1,56	8,89	0,0014	Pla2g7	Mus musculus phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) (Pla2g7), mRNA [NM_013737]
A_51_P378336	1,56	5,30	0,0123	Coq3	Mus musculus coenzyme Q3 homolog, methyltransferase (yeast) (Coq3), mRNA [NM_172687]
A_55_P1957459	1,56	7,73	0,0026	Lilrb4	Mus musculus leukocyte immunoglobulin-like receptor, subfamily B, member 4 (Lilrb4), transcript variant 2, mRNA [NM_001291894]
A_51_P419117	1,56	7,08	0,0037	Rab15	Mus musculus RAB15, member RAS oncogene family (Rab15), mRNA [NM_134050]
A_52_P171212	1,56	4,52	0,0232	Irs1	Mus musculus insulin receptor substrate 1 (Irs1), mRNA [NM_010570]
A_55_P1998299	1,56	6,80	0,0044	Itgb4	Mus musculus integrin beta 4 (Itgb4), transcript variant 1, mRNA [NM_001005608]
A_52_P304128	1,56	8,57	0,0016	Mmp14	Mus musculus matrix metalloproteinase 14 (membrane-inserted) (Mmp14), mRNA [NM_008608]
A_51_P160536	1,56	4,11	0,0329	1700026D08 Rik	Mus musculus RIKEN cDNA 1700026D08 gene (1700026D08Rik), mRNA [NM_029335]
A_66_P123196	1,56	4,05	0,0344	Gm10007	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130029G22 product:hypothetical protein, full insert sequence. [AK037606]

A_55_P2142830	1,55	10,83	0,0006	Ninj1	Mus musculus ninjurin 1 (Ninj1), mRNA [NM_013610]
A_55_P1957797	1,55	4,04	0,0346	Bpifb1	Mus musculus BPI fold containing family B, member 1 (Bpifb1), transcript variant 1, mRNA [NM_001012392]
A_55_P2159870	1,54	4,07	0,0339	Tead4	Mus musculus TEA domain family member 4 (Tead4), transcript variant 1, mRNA [NM_011567]
A_55_P2145389	1,54	5,14	0,0140	Flrt3	Mus musculus fibronectin leucine rich transmembrane protein 3 (Flrt3), transcript variant 1, mRNA [NM_001172160]
A_55_P2085142	1,54	9,43	0,0010	Spp1	Mus musculus secreted phosphoprotein 1 (Spp1), transcript variant 5, mRNA [NM_001204233]
A_52_P228005	1,54	4,27	0,0285	lpmk	inositol polyphosphate multikinase [Source:MGI Symbol;Acc:MGI:1916968] [ENSMUST00000118381]
A_55_P1995572	1,54	12,29	0,0004	Meis1	Mus musculus Meis homeobox 1 (Meis1), transcript variant B, mRNA [NM_001193271]
A_55_P2139341	1,53	7,64	0,0026	Gm5595	Mus musculus predicted gene 5595 (Gm5595), mRNA [NM_001008427]
A_55_P1988202	1,53	8,47	0,0017	Ifi203	Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]
A_55_P1996973	1,52	7,89	0,0024	Gvin1	Mus musculus GTPase, very large interferon inducible 1 (Gvin1), transcript variant 1, mRNA [NM_029000]
A_55_P2048912	1,52	5,01	0,0155	Themis2	Mus musculus thymocyte selection associated family member 2 (Themis2), mRNA [NM_001033308]
A_52_P284495	1,52	10,29	0,0007	Ankrd33b	Mus musculus ankyrin repeat domain 33B (Ankrd33b), transcript variant 1, mRNA [NM_026153]
A_55_P2115225	1,52	6,65	0,0048	Fap	Mus musculus fibroblast activation protein (Fap), mRNA [NM_007986]
A_52_P799815	1,52	3,72	0,0461	Tmem171	Mus musculus transmembrane protein 171 (Tmem171), mRNA [NM_001025606]
A_52_P495869	1,51	9,11	0,0012	Mafb	Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian) (Mafb), mRNA [NM_010658]
A_55_P2000439	1,51	3,96	0,0369	Ptprz1	Mus musculus protein tyrosine phosphatase, receptor type Z, polypeptide 1 (Ptprz1), mRNA [NM_001081306]
A_55_P2154425	1,51	5,35	0,0119	Cd320	Mus musculus CD320 antigen (Cd320), mRNA [NM_019421]
A_66_P121787	1,50	7,75	0,0025	Samd9l	Mus musculus sterile alpha motif domain containing 9-like (Samd9l), mRNA [NM_010156]
A_55_P2151601	1,49	9,38	0,0010	Samd9l	Mus musculus sterile alpha motif domain containing 9-like (Samd9l), mRNA [NM_010156]
A_51_P472867	1,49	5,19	0,0136	Oas3	Mus musculus 2'-5' oligoadenylate synthetase 3 (Oas3), mRNA [NM_145226]
A_51_P336833	1,49	7,36	0,0032	Fabp4	Mus musculus fatty acid binding protein 4, adipocyte (Fabp4), mRNA [NM_024406]
A_55_P2066230	1,48	8,49	0,0017	Hck	Mus musculus hemopoietic cell kinase (Hck), transcript variant 1, mRNA [NM_001172117]
A_51_P405167	1,48	7,25	0,0034	Maf	Mus musculus avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog (Maf), mRNA [NM_001025577]
A_55_P2076757	1,48	8,40	0,0018	Znfx1	Mus musculus zinc finger, NFX1-type containing 1 (Znfx1), transcript variant 1, mRNA [NM_001033196]
A_55_P1990633	1,48	3,68	0,0476	Ilgp1	Mus musculus interferon inducible GTPase 1 (Ilgp1), transcript variant 2, mRNA [NM_001146275]
A_55_P2087628	1,48	4,10	0,0330	LOC102642448	PREDICTED: Mus musculus schlafen family member 13-like (LOC102642448), mRNA [XM_006544847]
A_52_P410685	1,47	5,17	0,0138	Krt7	Mus musculus keratin 7 (Krt7), mRNA [NM_033073]
A_51_P412835	1,47	9,87	0,0008	Daxx	Mus musculus Fas death domain-associated protein (Daxx), transcript variant 2, mRNA [NM_007829]
A_51_P405375	1,47	3,77	0,0441	Zdhc15	Mus musculus zinc finger, DHHC domain containing 15 (Zdhc15), mRNA [NM_175358]
A_55_P2123291	1,46	4,62	0,0213	2310034G01Rik	Mus musculus RIKEN cDNA 2310034G01 gene (2310034G01Rik), long non-coding RNA [NR_040418]
A_51_P401987	1,46	9,88	0,0008	Tmem37	Mus musculus transmembrane protein 37 (Tmem37), mRNA [NM_019432]
A_51_P192800	1,46	10,87	0,0006	Grn	Mus musculus granulin (Grn), mRNA [NM_008175]
A_55_P1962305	1,46	4,84	0,0178	Plac8	Mus musculus placenta-specific 8 (Plac8), mRNA [NM_139198]
A_66_P119968	1,45	5,84	0,0083	Clec4a1	Mus musculus C-type lectin domain family 4, member a1 (Clec4a1), mRNA [NM_199311]
A_51_P406204	1,45	3,65	0,0489	Olfir822	Mus musculus olfactory receptor 822 (Olfir822), mRNA [NM_146671]
A_55_P2176748	1,45	3,63	0,0498	Prss50	Mus musculus protease, serine 50 (Prss50), mRNA [NM_146227]
A_66_P138137	1,45	7,50	0,0029	Pnp	Mus musculus purine-nucleoside phosphorylase (Pnp), mRNA [NM_013632]
A_55_P2251181	1,45	6,91	0,0040	2900076A13Rik	Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched library, clone:2900076A13 product:unclassifiable, full insert sequence. [AK013795]
A_51_P262171	1,44	8,91	0,0013	Irgm1	Mus musculus immunity-related GTPase family M member 1 (Irgm1), mRNA [NM_008326]
A_55_P1959953	1,44	8,65	0,0016	Helz2	Mus musculus helicase with zinc finger 2, transcriptional coactivator (Helz2), mRNA [NM_183162]
A_55_P1994042	1,44	8,66	0,0016	Zbp1	Mus musculus Z-DNA binding protein 1 (Zbp1), transcript variant 2, mRNA [NM_001139519]
A_55_P2152437	1,44	6,48	0,0054	Mitf	Mus musculus microphthalmia-associated transcription factor (Mitf), transcript variant 1, mRNA [NM_001113198]
A_51_P477229	1,43	4,08	0,0335	Olfir780	Mus musculus olfactory receptor 780 (Olfir780), mRNA [NM_146284]
A_55_P2048279	1,43	10,18	0,0007	Tlr13	Mus musculus toll-like receptor 13 (Tlr13), mRNA [NM_205820]
A_52_P282741	1,43	10,10	0,0007	Sdc3	Mus musculus syndecan 3 (Sdc3), mRNA [NM_011520]
A_55_P2021465	1,43	4,55	0,0226	Phldb2	Mus musculus pleckstrin homology-like domain, family B, member 2 (Phldb2), transcript variant 1, mRNA [NM_001252442]
A_66_P130813	1,43	4,47	0,0240	Samd4	Mus musculus sterile alpha motif domain containing 4 (Samd4), transcript variant 1, mRNA [NM_001037221]

A_55_P1960213	1,43	3,88	0,0394	2410141K09 Rik	Mus musculus RIKEN cDNA 2410141K09 gene (2410141K09Rik), transcript variant 2, mRNA [NM_183119]
A_55_P2165869	1,42	6,62	0,0049	Cebpb	Mus musculus CCAAT/enhancer binding protein (C/EBP), beta (Cebpb), transcript variant 1, mRNA [NM_001287738]
A_52_P452689	1,42	4,97	0,0160	Atf3	Mus musculus activating transcription factor 3 (Atf3), mRNA [NM_007498]
A_51_P331059	1,41	3,65	0,0488	Tex15	Mus musculus testis expressed gene 15 (Tex15), mRNA [NM_031374]
A_51_P390538	1,41	8,32	0,0019	Mpeg1	Mus musculus macrophage expressed gene 1 (Mpeg1), mRNA [NM_010821]
A_55_P2169356	1,41	6,96	0,0039	Gm1966	Mus musculus predicted gene 1966 (Gm1966), transcript variant 5, mRNA [NM_001277183]
A_52_P211737	1,41	4,90	0,0171	Myo1d	Mus musculus myosin ID (Myo1d), mRNA [NM_177390]
A_55_P2064771	1,41	4,70	0,0197	Ly6c1	Mus musculus lymphocyte antigen 6 complex, locus C1 (Ly6c1), transcript variant 2, mRNA [NM_001252055]
A_55_P1962404	1,41	8,39	0,0018	Ugt1a6b	Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6B (Ugt1a6b), mRNA [NM_201410]
A_55_P2063755	1,41	5,66	0,0094	Naip6	Mus musculus NLR family, apoptosis inhibitory protein 6 (Naip6), mRNA [NM_010871]
A_55_P2003991	1,41	6,80	0,0044	H2-T24	Mus musculus histocompatibility 2, T region locus 24 (H2-T24), mRNA [NM_008207]
A_51_P501248	1,41	6,73	0,0045	Sphk1	Mus musculus sphingosine kinase 1 (Sphk1), transcript variant 2, mRNA [NM_025367]
A_55_P1958840	1,41	11,08	0,0005	Itga6	integrin alpha 6 [Source:MGI Symbol;Acc:MGI:96605] [ENSMUST00000139760]
A_52_P78975	1,40	5,58	0,0100	Ebf4	Mus musculus early B cell factor 4 (Ebf4), mRNA [NM_001110513]
A_55_P2012201	1,40	9,59	0,0010	App	Mus musculus amyloid beta (A4) precursor protein (App), transcript variant 1, mRNA [NM_001198823]
A_52_P90363	1,40	6,08	0,0071	Ifi2712a	Mus musculus interferon, alpha-inducible protein 27 like 2A (Ifi2712a), transcript variant 1, mRNA [NM_029803]
A_52_P649224	1,40	7,89	0,0024	Sash1	Mus musculus SAM and SH3 domain containing 1 (Sash1), mRNA [NM_175155]
A_66_P132859	1,39	4,12	0,0324	Gm5607	Mus musculus predicted gene 5607 (Gm5607), long non-coding RNA [NR_027975]
A_55_P2063880	1,39	5,84	0,0084	C7	Mus musculus complement component 7 (C7), mRNA [NM_001243837]
A_55_P2024245	1,39	7,19	0,0034	Mthfr	Mus musculus 5,10-methylenetetrahydrofolate reductase (Mthfr), transcript variant 1, mRNA [NM_001161798]
A_55_P2042855	1,39	3,71	0,0463	Disc1	Mus musculus disrupted in schizophrenia 1 (Disc1), transcript variant 1, mRNA [NM_174854]
A_51_P323180	1,38	7,37	0,0031	Gbp9	Mus musculus guanylate-binding protein 9 (Gbp9), mRNA [NM_172777]
A_52_P196568	1,38	5,79	0,0086	Meg3	Mus musculus maternally expressed 3 (Meg3), transcript variant 1, long non-coding RNA [NR_003633]
A_52_P180373	1,38	10,26	0,0007	Mpeg1	Mus musculus macrophage expressed gene 1 (Mpeg1), mRNA [NM_010821]
A_55_P2183597	1,38	6,37	0,0058	Tbc1d2	Mus musculus TBC1 domain family, member 2 (Tbc1d2), mRNA [NM_198664]
A_52_P64514	1,38	7,12	0,0036	Herc6	Mus musculus hect domain and RLD 6 (Herc6), mRNA [NM_025992]
A_52_P58145	1,38	6,19	0,0065	Aldh1a2	Mus musculus aldehyde dehydrogenase family 1, subfamily A2 (Aldh1a2), mRNA [NM_009022]
A_51_P109449	1,37	4,50	0,0236	Ltb4r1	Mus musculus leukotriene B4 receptor 1 (Ltb4r1), mRNA [NM_008519]
A_55_P2142863	1,37	9,05	0,0012	Parp9	Mus musculus poly (ADP-ribose) polymerase family, member 9 (Parp9), mRNA [NM_030253]
A_55_P2140031	1,36	7,92	0,0023	Fam129b	Mus musculus family with sequence similarity 129, member B (Fam129b), mRNA [NM_146119]
A_55_P1960202	1,36	6,54	0,0051	Vcan	Mus musculus versican (Vcan), transcript variant 1, mRNA [NM_001081249]
A_55_P2111264	1,36	4,56	0,0224	Lhx9	Mus musculus LIM homeobox protein 9 (Lhx9), transcript variant 1, mRNA [NM_001025565]
A_52_P535484	1,36	8,52	0,0017	Gvin1	Mus musculus GTPase, very large interferon inducible 1 (Gvin1), transcript variant 1, mRNA [NM_029000]
A_66_P128079	1,36	5,27	0,0126	Krt8	Mus musculus blastocyst blastocyst cDNA, RIKEN full-length enriched library, clone:11C0017101 product:keratin complex 2, basic, gene 8, full insert sequence. [AK166854]
A_55_P1955906	1,36	4,43	0,0250	Stat1	Mus musculus signal transducer and activator of transcription 1 (Stat1), transcript variant 2, mRNA [NM_009283]
A_55_P1965000	1,35	9,62	0,0010	Ddx58	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 (Ddx58), mRNA [NM_172689]
A_51_P130475	1,35	3,79	0,0430	Wnt4	Mus musculus wingless-related MMTV integration site 4 (Wnt4), mRNA [NM_009523]
A_55_P2098071	1,35	8,87	0,0014	Trim25	Mus musculus tripartite motif-containing 25 (Trim25), mRNA [NM_009546]
A_52_P93910	1,35	6,21	0,0065	Nrp2	Mus musculus neuropilin 2 (Nrp2), transcript variant 1, mRNA [NM_001077403]
A_55_P1953169	1,34	5,59	0,0099	Saa3	Mus musculus serum amyloid A 3 (Saa3), mRNA [NM_011315]
A_55_P1966194	1,34	8,50	0,0017	Plek	Mus musculus pleckstrin (Plek), mRNA [NM_019549]
A_51_P444290	1,34	5,97	0,0077	Slamf8	Mus musculus SLAM family member 8 (Slamf8), mRNA [NM_029084]
A_55_P1999648	1,33	7,82	0,0024	Plin2	Mus musculus perilipin 2 (Plin2), mRNA [NM_007408]
A_52_P527800	1,33	6,98	0,0039	Emilin2	Mus musculus elastin microfibril interfacer 2 (Emilin2), mRNA [NM_145158]
A_66_P114784	1,33	4,79	0,0184	Pla2g7	Mus musculus phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) (Pla2g7), mRNA [NM_013737]
A_51_P110301	1,33	7,61	0,0027	C3	Mus musculus complement component 3 (C3), mRNA [NM_009778]
A_55_P2470474	1,33	4,50	0,0236	9530082P21 Rik	Mus musculus 0 day neonate lung cDNA, RIKEN full-length enriched library, clone:E030034F15 product:unclassifiable, full

					insert sequence. [AK087205]
A_51_P520936	1,33	5,47	0,0108	Bcar3	Mus musculus breast cancer anti-estrogen resistance 3 (Bcar3), mRNA [NM_013867]
A_52_P161488	1,33	6,04	0,0073	Clec4e	Mus musculus C-type lectin domain family 4, member e (Clec4e), mRNA [NM_019948]
A_52_P385536	1,33	4,75	0,0190	Ddx58	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 (Ddx58), mRNA [NM_172689]
A_66_P134501	1,33	7,50	0,0029	Olfm1	Mus musculus olfactomedin 1 (Olfm1), transcript variant 1, mRNA [NM_019498]
A_52_P257812	1,32	7,24	0,0034	Lpl	Mus musculus lipoprotein lipase (Lpl), mRNA [NM_008509]
A_51_P381558	1,32	8,11	0,0021	Rasa4	Mus musculus RAS p21 protein activator 4 (Rasa4), transcript variant 1, mRNA [NM_133914]
A_55_P2033780	1,32	4,24	0,0294	Fabp3	Mus musculus fatty acid binding protein 3, muscle and heart (Fabp3), mRNA [NM_010174]
A_55_P1981479	1,32	5,94	0,0078	Irgm1	Mus musculus immunity-related GTPase family M member 1 (Irgm1), mRNA [NM_008326]
A_51_P455807	1,32	8,98	0,0013	Ehd4	Mus musculus EH-domain containing 4 (Ehd4), mRNA [NM_133838]
A_55_P2085200	1,32	3,75	0,0448	Olfir920	Mus musculus olfactory receptor 920 (Olfir920), mRNA [NM_146787]
A_55_P2035315	1,31	5,59	0,0099	Rasgef1b	Mus musculus RasGEF domain family, member 1B (Rasgef1b), transcript variant 1, mRNA [NM_145839]
A_55_P1966721	1,31	8,64	0,0016	9930105H17 Rik	Mus musculus RIKEN cDNA 9930105H17 gene, mRNA (cDNA clone IMAGE:3587376), containing frame-shift errors. [BC027236]
A_51_P134627	1,31	7,96	0,0023	Asb13	Mus musculus ankyrin repeat and SOCS box-containing 13 (Asb13), transcript variant 1, mRNA [NM_178283]
A_55_P2042121	1,30	7,76	0,0025	Slc25a22	Mus musculus solute carrier family 25 (mitochondrial carrier, glutamate), member 22 (Slc25a22), transcript variant 1, mRNA [NM_026646]
A_55_P1989981	1,30	8,11	0,0021	Fam129b	Mus musculus family with sequence similarity 129, member B (Fam129b), mRNA [NM_146119]
A_55_P2183015	1,30	10,00	0,0008	P2rx4	Mus musculus purinergic receptor P2X, ligand-gated ion channel 4 (P2rx4), mRNA [NM_011026]
A_55_P1978216	1,30	6,88	0,0041	AF251705	Mus musculus cDNA sequence AF251705 (AF251705), mRNA [NM_134158]
A_55_P2135200	1,30	7,66	0,0026	Slfn10-ps	Mus musculus schlafen 10, pseudogene (Slfn10-ps), transcript variant 1, non-coding RNA [NR_073523]
A_51_P359272	1,30	5,61	0,0098	Alcam	Mus musculus activated leukocyte cell adhesion molecule (Alcam), mRNA [NM_009655]
A_55_P2169415	1,30	4,18	0,0307	Cgn	Mus musculus cingulin (Cgn), mRNA [NM_001037711]
A_52_P599264	1,30	8,84	0,0014	Mdfic	Mus musculus MyoD family inhibitor domain containing (Mdfic), mRNA [NM_175088]
A_55_P2048418	1,29	13,51	0,0003	Mdfic	Mus musculus MyoD family inhibitor domain containing (Mdfic), mRNA [NM_175088]
A_51_P259296	1,29	6,86	0,0041	Lpl	Mus musculus lipoprotein lipase (Lpl), mRNA [NM_008509]
A_55_P2050932	1,29	9,94	0,0008	Tlr7	Mus musculus toll-like receptor 7 (Tlr7), transcript variant 1, mRNA [NM_001290755]
A_55_P2083988	1,29	6,36	0,0058	Lmo2	Mus musculus LIM domain only 2 (Lmo2), transcript variant 1, mRNA [NM_008505]
A_55_P2133405	1,28	6,98	0,0039	Dmkn	Mus musculus dermokine (Dmkn), transcript variant 3, mRNA [NM_001166173]
A_51_P267239	1,28	7,87	0,0024	Litaf	Mus musculus LPS-induced TN factor (Litaf), mRNA [NM_019980]
A_55_P2174582	1,28	5,60	0,0098	Urah	Mus musculus urate (5-hydroxyiso-) hydrolase (Urah), mRNA [NM_029821]
A_51_P158073	1,28	8,54	0,0017	A230050P20 Rik	Mus musculus RIKEN cDNA A230050P20 gene (A230050P20Rik), mRNA [NM_175687]
A_55_P2129047	1,27	6,11	0,0069	Tlr7	Mus musculus toll-like receptor 7 (Tlr7), transcript variant 1, mRNA [NM_001290755]
A_55_P2009121	1,27	7,92	0,0023	Agrn	Mus musculus agrin (Agrn), mRNA [NM_021604]
A_55_P1984243	1,27	6,59	0,0050	Naip2	Mus musculus NLR family, apoptosis inhibitory protein 2 (Naip2), transcript variant 1, mRNA [NM_010872]
A_55_P2035519	1,27	3,81	0,0424	Kif9	Mus musculus kinesin family member 9 (Kif9), transcript variant 2, mRNA [NM_010628]
A_51_P414889	1,27	9,66	0,0009	Ifi35	Mus musculus interferon-induced protein 35 (Ifi35), mRNA [NM_027320]
A_51_P389885	1,27	4,89	0,0171	Spic	Mus musculus Spi-C transcription factor (Spi-1/PU.1 related) (Spic), mRNA [NM_011461]
A_55_P1959305	1,26	6,04	0,0073	Rbm47	Mus musculus RNA binding motif protein 47 (Rbm47), transcript variant 1, mRNA [NM_178446]
A_66_P110343	1,26	4,65	0,0207	Snx10	Mus musculus sorting nexin 10 (Snx10), transcript variant 1, mRNA [NM_028035]
A_55_P2472435	1,26	6,50	0,0054	Gbp3	Mus musculus guanylate binding protein 3 (Gbp3), transcript variant 1, mRNA [NM_001289492]
A_65_P17218	1,26	9,99	0,0008	Mndal	Mus musculus myeloid nuclear differentiation antigen like (Mndal), mRNA [NM_001170853]
A_52_P682745	1,25	4,41	0,0256	Dock4	Mus musculus dedicator of cytokinesis 4 (Dock4), mRNA [NM_172803]
A_51_P100298	1,25	4,89	0,0172	Stx3	Mus musculus syntaxin 3 (Stx3), transcript variant A, mRNA [NM_152220]
A_55_P2359797	1,25	4,38	0,0261	Nod2	Mus musculus nucleotide-binding oligomerization domain containing 2 (Nod2), mRNA [NM_145857]
A_55_P2140592	1,25	6,41	0,0057	Dmkn	Mus musculus dermokine (Dmkn), transcript variant 3, mRNA [NM_001166173]
A_55_P2025765	1,25	6,17	0,0066	Adam8	Mus musculus a disintegrin and metalloproteinase domain 8 (Adam8), transcript variant 1, mRNA [NM_007403]
A_66_P114627	1,24	6,75	0,0045	S100a16	Mus musculus S100 calcium binding protein A16 (S100a16), mRNA [NM_026416]



A_52_P577662	1,24	5,16	0,0138	Ednrb	Mus musculus endothelin receptor type B (Ednrb), transcript variant 1, mRNA [NM_007904]
A_55_P2116365	1,24	5,19	0,0135	Myof	Mus musculus myoferlin (Myof), mRNA [NM_001099634]
A_55_P2425801	1,24	5,39	0,0114	Fmn1	Mus musculus formin 1 (Fmn1), transcript variant 1, mRNA [NM_010230]
A_51_P505823	1,24	9,66	0,0009	Endod1	Mus musculus endonuclease domain containing 1 (Endod1), mRNA [NM_028013]
A_55_P2062246	1,24	8,46	0,0017	Tgtp2	Mus musculus T cell specific GTPase 2 (Tgtp2), mRNA [NM_001145164]
A_55_P2145680	1,23	5,25	0,0129	Rilpl1	Mus musculus Rab interacting lysosomal protein-like 1 (Rilpl1), mRNA [NM_021430]
A_55_P2092826	1,23	6,69	0,0047	Anxa1	Mus musculus annexin A1 (Anxa1), mRNA [NM_010730]
A_55_P1964960	1,23	6,81	0,0043	Il33	Mus musculus interleukin 33 (Il33), transcript variant 1, mRNA [NM_001164724]
A_52_P1197913	1,23	9,33	0,0011	Gadd45b	Mus musculus growth arrest and DNA-damage-inducible 45 beta (Gadd45b), mRNA [NM_008655]
A_52_P168567	1,22	3,89	0,0390	Cebpa	Mus musculus CCAAT/enhancer binding protein (C/EBP), alpha (Cebpa), transcript variant 1, mRNA [NM_007678]
A_55_P2082974	1,22	3,95	0,0371	Irak2	Mus musculus interleukin-1 receptor-associated kinase 2 (Irak2), transcript variant 1, mRNA [NM_172161]
A_55_P2048855	1,22	8,00	0,0022	Spr2a2	Mus musculus small proline-rich protein 2A2 (Spr2a2), mRNA [NM_001164787]
A_52_P317820	1,22	3,74	0,0452	Fbxo41	Mus musculus F-box protein 41 (Fbxo41), transcript variant 1, mRNA [NM_001001160]
A_55_P2051414	1,22	7,55	0,0028	Axl	Mus musculus AXL receptor tyrosine kinase (Axl), transcript variant 1, mRNA [NM_009465]
A_51_P114910	1,22	10,42	0,0006	Cstb	Mus musculus cystatin B (Cstb), mRNA [NM_007793]
A_55_P2030383	1,22	7,36	0,0032	Frmd4a	Mus musculus FERM domain containing 4A (Frmd4a), transcript variant 2, mRNA [NM_001177843]
A_52_P258617	1,21	4,11	0,0329	Cd180	Mus musculus CD180 antigen (Cd180), mRNA [NM_008533]
A_52_P431615	1,21	7,05	0,0038	Gm1966	Mus musculus predicted gene 1966 (Gm1966), transcript variant 5, mRNA [NM_001277183]
A_51_P114462	1,21	6,64	0,0048	Ccl17	Mus musculus chemokine (C-C motif) ligand 17 (Ccl17), mRNA [NM_011332]
A_66_P105689	1,20	5,68	0,0094	Trim34a	Mus musculus tripartite motif-containing 34A (Trim34a), mRNA [NM_030684]
A_55_P2179413	1,20	9,22	0,0011	Lgals3bp	Mus musculus lectin, galactoside-binding, soluble, 3 binding protein (Lgals3bp), mRNA [NM_011150]
A_51_P265495	1,20	5,89	0,0081	Ly6a	Mus musculus lymphocyte antigen 6 complex, locus A (Ly6a), transcript variant 3, mRNA [NM_010738]
A_51_P327874	1,20	4,04	0,0346	Pth1r	Mus musculus parathyroid hormone 1 receptor (Pth1r), transcript variant 1, mRNA [NM_011199]
A_51_P261517	1,20	6,75	0,0045	Tyrbp	Mus musculus TYRO protein tyrosine kinase binding protein (Tyrbp), mRNA [NM_011662]
A_55_P2001998	1,20	4,76	0,0189	Zfp503	Mus musculus zinc finger protein 503 (Zfp503), mRNA [NM_145459]
A_52_P337246	1,20	3,70	0,0468	Isl1	Mus musculus ISL1 transcription factor, LIM/homeodomain (Isl1), mRNA [NM_021459]
A_55_P2181109	1,20	10,68	0,0006	Il10rb	Mus musculus interleukin 10 receptor, beta (Il10rb), mRNA [NM_008349]
A_51_P398089	1,20	3,69	0,0472	Vmn1r67	Mus musculus vomeronasal 1 receptor 67 (Vmn1r67), mRNA [NM_134229]
A_55_P2059606	1,19	7,64	0,0027	Stat2	Mus musculus signal transducer and activator of transcription 2 (Stat2), mRNA [NM_019963]
A_55_P2003996	1,19	5,14	0,0140	H2-T24	Mus musculus histocompatibility 2, T region locus 24 (H2-T24), mRNA [NM_008207]
A_55_P2186005	1,19	4,56	0,0225	Sphk1	Mus musculus sphingosine kinase 1 (Sphk1), transcript variant 4, mRNA [NM_001172472]
A_52_P159429	1,19	4,26	0,0288	AU021092	Mus musculus expressed sequence AU021092 (AU021092), mRNA [NM_001033220]
A_66_P103398	1,19	4,64	0,0208	Ogfr1	Mus musculus opioid growth factor receptor-like 1 (Ogfr1), mRNA [NM_001081079]
A_55_P2156588	1,19	4,63	0,0210	Ifnk	Mus musculus interferon kappa (Ifnk), mRNA [NM_199157]
A_51_P302167	1,18	3,70	0,0469	Cobl	Mus musculus cordon-bleu WH2 repeat (Cobl), transcript variant 1, mRNA [NM_172496]
A_51_P334979	1,18	4,38	0,0261	Apoc2	Mus musculus apolipoprotein C-II (Apoc2), mRNA [NM_001277944]
A_55_P2165839	1,18	3,85	0,0405	Cebpe	Mus musculus CCAAT/enhancer binding protein (C/EBP), epsilon (Cebpe), mRNA [NM_207131]
A_51_P137419	1,18	10,50	0,0006	Cst7	Mus musculus cystatin F (leukocystatin) (Cst7), mRNA [NM_009977]
A_55_P2137049	1,18	3,98	0,0364	AA467197	Mus musculus expressed sequence AA467197 (AA467197), mRNA [NM_001004174]
A_52_P585652	1,18	5,40	0,0114	Fndc3b	Mus musculus fibronectin type III domain containing 3B (Fndc3b), mRNA [NM_173182]
A_55_P2085984	1,17	6,17	0,0066	Igf1	Mus musculus insulin-like growth factor 1 (Igf1), transcript variant 1, mRNA [NM_010512]
A_55_P2000224	1,17	9,85	0,0008	Cd63	Mus musculus CD63 antigen (Cd63), transcript variant 3, mRNA [NM_001282966]
A_55_P2076303	1,17	8,13	0,0021	39508	Mus musculus membrane-associated ring finger (C3HC4) 8 (March8), mRNA [NM_027920]
A_55_P2042823	1,17	7,10	0,0036	Sh3bp2	Mus musculus SH3-domain binding protein 2 (Sh3bp2), transcript variant 2, mRNA [NM_001145859]
A_51_P242930	1,17	8,02	0,0022	Lat2	Mus musculus linker for activation of T cells family, member 2 (Lat2), transcript variant 1, mRNA [NM_020044]
A_55_P2079746	1,17	4,28	0,0283	Pls3	Mus musculus platin 3 (T-isoform) (Pls3), transcript variant 1, mRNA [NM_145629]
A_55_P1998416	1,16	7,46	0,0029	Ifi47	Mus musculus interferon gamma inducible protein 47 (Ifi47), transcript variant 2, mRNA [NM_001271676]

A_55_P2173011	1,16	4,33	0,0271	Nfasc	Mus musculus neurofascin (Nfasc), transcript variant 1, mRNA [NM_182716]
A_55_P2017982	1,16	5,70	0,0092	Pde8b	Mus musculus phosphodiesterase 8B (Pde8b), transcript variant 1, mRNA [NM_001170669]
A_51_P113403	1,16	6,52	0,0053	Slc26a11	Mus musculus solute carrier family 26, member 11 (Slc26a11), mRNA [NM_178743]
A_52_P522427	1,15	4,29	0,0282	Hsh2d	Mus musculus hematopoietic SH2 domain containing (Hsh2d), mRNA [NM_197944]
A_55_P1974760	1,15	6,96	0,0039	Duox2	Mus musculus dual oxidase 2 (Duox2), mRNA [NM_177610]
A_51_P369862	1,15	8,30	0,0019	Nceh1	Mus musculus neutral cholesterol ester hydrolase 1 (Nceh1), mRNA [NM_178772]
A_55_P1996862	1,15	9,15	0,0012	Psme2b	Mus musculus protease (prosome, macropain) activator subunit 2B (Psme2b), mRNA [NM_001281472]
A_55_P1978681	1,15	5,06	0,0149	Tspan8	Mus musculus tetraspanin 8 (Tspan8), transcript variant 1, mRNA [NM_146010]
A_66_P128997	1,15	7,69	0,0026	Pml	Mus musculus promyelocytic leukemia (Pml), transcript variant 2, mRNA [NM_178087]
A_51_P256202	1,14	9,70	0,0009	Ctsz	Mus musculus cathepsin Z (Ctsz), mRNA [NM_022325]
A_55_P2026233	1,14	8,83	0,0014	Uba7	Mus musculus ubiquitin-like modifier activating enzyme 7 (Uba7), mRNA [NM_023738]
A_51_P324814	1,14	3,73	0,0457	Krt18	Mus musculus keratin 18 (Krt18), mRNA [NM_010664]
A_55_P2012349	1,14	7,84	0,0024	Fermt2	Mus musculus fermitin family homolog 2 (Drosophila) (Fermt2), mRNA [NM_146054]
A_55_P2154107	1,14	3,75	0,0449	Gcm1	Mus musculus glial cells missing homolog 1 (Drosophila) (Gcm1), mRNA [NM_008103]
A_55_P1983959	1,14	10,08	0,0008	Ftl1	Mus musculus ferritin light chain 1 (Ftl1), mRNA [NM_010240]
A_55_P2095973	1,14	3,73	0,0456	Cox17	Mus musculus cytochrome c oxidase assembly protein 17 (Cox17), mRNA [NM_001017429]
A_55_P2034928	1,14	7,14	0,0035	BC147527	Mus musculus cDNA sequence BC147527 (BC147527), mRNA [NM_001037925]
A_55_P2130970	1,14	9,63	0,0010	Parp10	Mus musculus poly (ADP-ribose) polymerase family, member 10 (Parp10), transcript variant 2, mRNA [NM_001163576]
A_55_P2107502	1,13	4,33	0,0271	Fat1	Mus musculus FAT tumor suppressor homolog 1 (Drosophila) (Fat1), mRNA [NM_001081286]
A_55_P1973046	1,13	4,89	0,0172	Cttnbp2nl	Mus musculus CTNBP2 N-terminal like (Cttnbp2nl), transcript variant 1, mRNA [NM_030249]
A_55_P1969078	1,13	9,78	0,0009	Adar	Mus musculus adenosine deaminase, RNA-specific (Adar), transcript variant 2, mRNA [NM_001038587]
A_55_P2121408	1,13	6,89	0,0041	Tpm2	Mus musculus tropomyosin 2, beta (Tpm2), transcript variant 2, mRNA [NM_001277875]
A_55_P2021266	1,12	6,66	0,0048	Hpse	Mus musculus heparanase (Hpse), mRNA [NM_152803]
A_55_P1961395	1,12	6,10	0,0069	Pdpn	Mus musculus podoplanin (Pdpn), transcript variant 1, mRNA [NM_010329]
A_52_P355084	1,12	8,16	0,0021	Metrl	Mus musculus meteorin, glial cell differentiation regulator-like (Metrl), mRNA [NM_144797]
A_55_P2062171	1,12	3,65	0,0492	Odf3	outer dense fiber of sperm tails 3 [Source:MGI Symbol;Acc:MGI:1916537] [ENSMUST00000135845]
A_55_P1981959	1,11	7,79	0,0024	Traf1	Mus musculus TRAF type zinc finger domain containing 1 (Traf1), transcript variant 1, mRNA [NM_001163470]
A_55_P1953919	1,11	4,04	0,0346	Me3	Mus musculus malic enzyme 3, NADP(+)-dependent, mitochondrial (Me3), mRNA [NM_181407]
A_55_P2166501	1,11	5,07	0,0148	Cd44	Mus musculus CD44 antigen (Cd44), transcript variant 1, mRNA [NM_009851]
A_55_P1962937	1,11	6,45	0,0055	Trem2	Mus musculus triggering receptor expressed on myeloid cells 2 (Trem2), transcript variant 2, mRNA [NM_001272078]
A_51_P463497	1,11	8,77	0,0015	Rnh1	Mus musculus ribonuclease/angiogenin inhibitor 1 (Rnh1), transcript variant 1, mRNA [NM_145135]
A_55_P2184189	1,10	6,62	0,0048	Ncf2	Mus musculus neutrophil cytosolic factor 2, mRNA (cDNA clone MGC:5795 IMAGE:3592460), complete cds. [BC003730]
A_51_P128876	1,10	7,35	0,0032	Ifitm3	Mus musculus interferon induced transmembrane protein 3 (Ifitm3), mRNA [NM_025378]
A_55_P2087265	1,10	4,36	0,0265	Ifitm1	Mus musculus interferon induced transmembrane protein 1, mRNA (cDNA clone MGC:102334 IMAGE:4982747), complete cds. [BC090258]
A_52_P503361	1,10	4,21	0,0299	Dcun1d3	Mus musculus DCN1, defective in cullin neddylation 1, domain containing 3 (S. cerevisiae) (Dcun1d3), transcript variant 1, mRNA [NM_173408]
A_51_P140321	1,10	6,63	0,0048	Mocos	Mus musculus molybdenum cofactor sulfuryase (Mocos), mRNA [NM_026779]
A_55_P2058928	1,10	9,86	0,0008	Ralgds	Mus musculus ral guanine nucleotide dissociation stimulator (Ralgds), transcript variant 3, mRNA [NM_009058]
A_55_P2185618	1,10	4,85	0,0177	Gpr61	Mus musculus G protein-coupled receptor 61 (Gpr61), mRNA [NM_175470]
A_51_P305547	1,10	3,86	0,0401	Snai2	Mus musculus snail homolog 2 (Drosophila) (Snai2), mRNA [NM_011415]
A_55_P2059154	1,10	7,24	0,0034	Dtx3l	Mus musculus dxtex 3-like (Drosophila) (Dtx3l), mRNA [NM_001013371]
A_55_P2016034	1,10	7,03	0,0038	Nlrc5	Mus musculus NLR family, CARD domain containing 5 (Nlrc5), mRNA [NM_001033207]
A_55_P2370410	1,10	4,27	0,0285	C79246	C79246 Mouse 3.5-dpc blastocyst cDNA Mus musculus cDNA clone J0063B08 3' similar to Genomic sequence from Mouse 4; HTGS phase 3. [C79246]
A_52_P481423	1,09	5,74	0,0090	Cttnbp2nl	Mus musculus CTNBP2 N-terminal like (Cttnbp2nl), transcript variant 1, mRNA [NM_030249]
A_55_P2170737	1,09	6,12	0,0069	Igf2bp2	Mus musculus insulin-like growth factor 2 mRNA binding protein 2 (Igf2bp2), mRNA [NM_183029]
A_52_P15212	1,09	7,15	0,0035	Ctbp2	Mus musculus C-terminal binding protein 2 (Ctbp2), transcript variant 2, mRNA [NM_009980]
A_52_P612251	1,09	4,02	0,0353	A930038B10 Rik	Mus musculus adult male liver tumor cDNA, RIKEN full-length enriched library, clone:C730014N11 product:unclassifiable, full

					insert sequence. [AK050096]
A_66_P113490	1,08	7,48	0,0029	Sh2b2	Mus musculus SH2B adaptor protein 2 (Sh2b2), mRNA [NM_018825]
A_55_P1956667	1,08	8,08	0,0022	Cyfp1	Mus musculus cytoplasmic FMR1 interacting protein 1 (Cyfp1), transcript variant 1, mRNA [NM_001164661]
A_55_P2033445	1,08	4,25	0,0290	Tnfrsf1b	Mus musculus tumor necrosis factor receptor superfamily, member 1b (Tnfrsf1b), mRNA [NM_011610]
A_55_P2025248	1,08	4,40	0,0256	Mxd1	Mus musculus MAX dimerization protein 1 (Mxd1), mRNA [NM_010751]
A_55_P2128501	1,08	4,85	0,0176	Krt8	Mus musculus keratin 8 (Krt8), mRNA [NM_031170]
A_52_P413947	1,08	5,66	0,0094	Mthfr	Mus musculus 5,10-methylenetetrahydrofolate reductase (Mthfr), transcript variant 2, mRNA [NM_010840]
A_55_P2158990	1,07	8,49	0,0017	Jun	Mus musculus jun proto-oncogene (Jun), mRNA [NM_010591]
A_55_P2186080	1,07	6,40	0,0057	Gm12680	Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930009N24 product:unclassifiable, full insert sequence. [AK044374]
A_55_P1974636	1,07	3,76	0,0442	Gm14625	Mus musculus predicted gene 14625 (Gm14625), mRNA [NM_001220498]
A_55_P2025078	1,07	9,17	0,0012	Csf1r	Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA [NM_001037859]
A_52_P263095	1,07	6,80	0,0044	Ahnak	Mus musculus AHNAK nucleoprotein (desmoyokin) (Ahnak), transcript variant 1, mRNA [NM_009643]
A_51_P440790	1,06	8,10	0,0021	Dpp7	Mus musculus dipeptidylpeptidase 7 (Dpp7), mRNA [NM_031843]
A_55_P2146254	1,06	4,18	0,0308	Ifitm1	Mus musculus interferon induced transmembrane protein 1 (Ifitm1), transcript variant 2, mRNA [NM_001112715]
A_55_P2123854	1,06	4,01	0,0355	Zfhx2	Mus musculus zinc finger homeobox 2 (Zfhx2), mRNA [NM_001039198]
A_55_P1961499	1,06	4,02	0,0353	Ly6c1	Mus musculus lymphocyte antigen 6 complex, locus C1 (Ly6c1), transcript variant 5, mRNA [NM_001252058]
A_55_P2124976	1,06	3,81	0,0424	Grhl1	Mus musculus grainyhead-like 1 (Drosophila) (Grhl1), transcript variant 2, mRNA [NM_145890]
A_55_P2137611	1,06	6,41	0,0057	Irgm2	Mus musculus immunity-related GTPase family M member 2 (Irgm2), mRNA [NM_019440]
A_55_P1984035	1,06	3,81	0,0424	Litaf	Mus musculus LPS-induced TN factor (Litaf), mRNA [NM_019980]
A_51_P105380	1,06	3,66	0,0488	2010005H15 Rik	Mus musculus RIKEN cDNA 2010005H15 gene (2010005H15Rik), mRNA [NM_029733]
A_55_P2141851	1,05	4,44	0,0248	Pls3	Mus musculus plastin 3 (T-isoform) (Pls3), transcript variant 1, mRNA [NM_145629]
A_55_P1962344	1,05	7,13	0,0035	Trim21	Mus musculus tripartite motif-containing 21 (Trim21), transcript variant 1, mRNA [NM_009277]
A_51_P112308	1,05	4,79	0,0184	1810011010 Rik	Mus musculus RIKEN cDNA 1810011010 gene (1810011010Rik), mRNA [NM_026931]
A_66_P137605	1,05	7,19	0,0034	Mb21d1	Mus musculus Mab-21 domain containing 1 (Mb21d1), mRNA [NM_173386]
A_51_P472249	1,05	6,70	0,0047	Slc7a7	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 7 (Slc7a7), transcript variant 1, mRNA [NM_011405]
A_52_P466090	1,05	6,77	0,0045	Samhd1	Mus musculus SAM domain and HD domain, 1 (Samhd1), transcript variant 1, mRNA [NM_018851]
A_55_P2006915	1,05	4,09	0,0335	Myo5c	Mus musculus myosin VC (Myo5c), mRNA [NM_001081322]
A_55_P2153431	1,05	9,37	0,0010	Ralgds	Mus musculus ral guanine nucleotide dissociation stimulator (Ralgds), transcript variant 3, mRNA [NM_009058]
A_51_P465350	1,04	5,57	0,0101	Ly86	Mus musculus lymphocyte antigen 86 (Ly86), mRNA [NM_010745]
A_66_P136714	1,04	9,40	0,0010	Scpep1	Mus musculus serine carboxypeptidase 1, mRNA (cDNA clone MGC:29291 IMAGE:4193674), complete cds. [BC021399]
A_55_P2030030	1,04	6,47	0,0054	Adssl1	Mus musculus adenylosuccinate synthetase like 1 (Adssl1), mRNA [NM_007421]
A_55_P1959064	1,04	6,49	0,0054	Oas1b	Mus musculus 2'-5' oligoadenylate synthetase 1B (Oas1b), mRNA [NM_001083925]
A_51_P286488	1,04	5,14	0,0140	Ier3	Mus musculus immediate early response 3 (Ier3), mRNA [NM_133662]
A_51_P209280	1,04	5,77	0,0087	Rab31	Mus musculus RAB31, member RAS oncogene family (Rab31), mRNA [NM_133685]
A_55_P2017759	1,04	6,21	0,0065	Evi2a	Mus musculus ecotropic viral integration site 2a (Evi2a), transcript variant 1, mRNA [NM_001033711]
A_52_P463977	1,03	5,54	0,0102	Tmem140	Mus musculus transmembrane protein 140 (Tmem140), mRNA [NM_197986]
A_55_P2038525	1,03	6,97	0,0039	C3	Mus musculus complement component 3 (C3), mRNA [NM_009778]
A_55_P2120308	1,03	3,74	0,0451	Cacna1a	Mus musculus calcium channel, voltage-dependent, P/Q type, alpha 1A subunit (Cacna1a), transcript variant 1, mRNA [NM_007578]
A_55_P2124153	1,03	4,98	0,0158	Rusc2	Mus musculus RUN and SH3 domain containing 2 (Rusc2), transcript variant 2, mRNA [NM_001037709]
A_55_P2142226	1,03	4,64	0,0208	Serpina3f	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3F (Serpina3f), transcript variant 1, mRNA [NM_001168294]
A_51_P400543	1,03	6,84	0,0042	Aif1	Mus musculus allograft inflammatory factor 1 (Aif1), mRNA [NM_019467]
A_52_P510634	1,03	5,37	0,0117	9130227L01 Rik	Mus musculus RIKEN cDNA 9130227L01 gene (9130227L01Rik), long non-coding RNA [NR_045837]
A_55_P2020378	1,03	6,21	0,0064	Ehd4	Mus musculus EH-domain containing 4 (Ehd4), mRNA [NM_133838]
A_51_P300572	1,03	5,65	0,0095	Slc30a1	Mus musculus solute carrier family 30 (zinc transporter), member 1 (Slc30a1), mRNA [NM_009579]
A_51_P464710	1,03	4,20	0,0303	Adap2	Mus musculus ArfGAP with dual PH domains 2 (Adap2), mRNA [NM_172133]



A_55_P2015405	1,03	5,40	0,0114	9930111J21Rik1	Mus musculus RIKEN cDNA 9930111J21 gene 1 (9930111J21Rik1), mRNA [NM_00114679]
A_52_P602091	1,03	8,11	0,0021	Csf1r	Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA [NM_001037859]
A_51_P120093	1,02	6,14	0,0068	Snx10	Mus musculus sorting nexin 10 (Snx10), transcript variant 1, mRNA [NM_028035]
A_51_P237752	1,02	5,46	0,0109	Ptrf	Mus musculus polymerase I and transcript release factor (Ptrf), mRNA [NM_008986]
A_55_P2166282	1,02	4,56	0,0224	Flt1	FMS-like tyrosine kinase 1 [Source:MGI Symbol;Acc:MGI:95558] [ENSMUST00000110529]
A_55_P2034663	1,02	3,98	0,0365	Csf2rb2	Mus musculus colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage) (Csf2rb2), transcript variant 1, mRNA [NM_007781]
A_51_P377452	1,02	6,48	0,0054	Ncf4	Mus musculus neutrophil cytosolic factor 4 (Ncf4), mRNA [NM_008677]
A_51_P326191	1,02	5,15	0,0139	Serpina3g	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3G (Serpina3g), mRNA [NM_009251]
A_51_P239203	1,02	3,69	0,0471	Mapk13	Mus musculus mitogen-activated protein kinase 13 (Mapk13), mRNA [NM_011950]
A_52_P142191	1,01	4,14	0,0317	Aph1b	Mus musculus anterior pharynx defective 1b homolog (C. elegans) (Aph1b), mRNA [NM_177583]
A_51_P193794	1,01	9,24	0,0011	Lrp1	Mus musculus low density lipoprotein receptor-related protein 1 (Lrp1), mRNA [NM_008512]
A_55_P1985850	1,01	4,73	0,0193	Timp1	Mus musculus tissue inhibitor of metalloproteinase 1 (Timp1), transcript variant 1, mRNA [NM_001044384]
A_55_P2181222	1,01	6,99	0,0039	Pydc3	Mus musculus pyrin domain containing 3 (Pydc3), mRNA [NM_001162938]
A_51_P495581	1,01	5,58	0,0100	Tlr1	Mus musculus toll-like receptor 1 (Tlr1), transcript variant 1, mRNA [NM_030682]
A_55_P2151685	1,01	3,79	0,0430	Pira11	Mus musculus paired-Ig-like receptor A11 (Pira11), mRNA [NM_011088]
A_51_P452629	1,01	4,09	0,0335	Tlr2	Mus musculus toll-like receptor 2 (Tlr2), mRNA [NM_011905]
A_55_P2149763	1,01	7,43	0,0030	Tapbp	Mus musculus TAP binding protein (Tapbp), transcript variant 1, mRNA [NM_001025313]
A_55_P2125663	1,01	4,54	0,0228	Rab11fip4os1	Mus musculus RAB11 family interacting protein 4 (class II), opposite strand 1 (Rab11fip4os1), long non-coding RNA [NR_003283]
A_55_P1964183	1,01	4,13	0,0320	Dysf	Mus musculus dysferlin (Dysf), transcript variant 2, mRNA [NM_001077694]
A_55_P2052380	1,01	6,11	0,0069	Gbp6	Mus musculus guanylate binding protein 6 (Gbp6), mRNA [NM_194336]
A_51_P160439	1,01	5,75	0,0088	Crybg3	Mus musculus beta-gamma crystallin domain containing 3 (Crybg3), mRNA [NM_174848]
A_55_P2026223	1,01	4,07	0,0339	St6galnac4	Mus musculus ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylglactosaminide alpha-2,6-sialyltransferase 4 (St6galnac4), transcript variant 1, mRNA [NM_011373]
A_55_P2236382	1,00	4,43	0,0251	D8Erttd158e	Mus musculus 15 days embryo head cDNA, RIKEN full-length enriched library, clone:D930018D02 product:unclassifiable, full insert sequence. [AK142804]
A_55_P2060966	1,00	9,01	0,0013	Mov10	Mus musculus Moloney leukemia virus 10 (Mov10), transcript variant 1, mRNA [NM_001163440]
A_52_P585751	1,00	6,75	0,0045	Gns	Mus musculus glucosamine (N-acetyl)-6-sulfatase (Gns), mRNA [NM_029364]
A_55_P2095727	1,00	6,31	0,0060	Pml	Mus musculus promyelocytic leukemia (Pml), transcript variant 2, mRNA [NM_178087]
A_55_P1969645	1,00	8,23	0,0020	Sdcbp	Mus musculus syndecan binding protein (Sdcbp), transcript variant 1, mRNA [NM_001098227]
A_55_P2035018	1,00	4,84	0,0178	Clec4n	Mus musculus C-type lectin domain family 4, member n (Clec4n), transcript variant 1, mRNA [NM_020001]
A_51_P450527	1,00	4,72	0,0194	Tagln	Mus musculus transgelin (Tagln), mRNA [NM_011526]
A_55_P2057936	0,99	6,06	0,0072	Gm12250	Mus musculus predicted gene 12250 (Gm12250), mRNA [NM_001135115]
A_55_P1983450	0,99	8,07	0,0022	S100a4	Mus musculus S100 calcium binding protein A4 (S100a4), mRNA [NM_011311]
A_52_P11174	0,99	3,83	0,0412	Hip1	Mus musculus huntingtin interacting protein 1 (Hip1), mRNA [NM_146001]
A_55_P1992099	0,99	5,53	0,0103	Ptprj	Mus musculus protein tyrosine phosphatase, receptor type, J (Ptprj), transcript variant 1, mRNA [NM_008982]
A_66_P122086	0,99	3,69	0,0474	9030619P08Rik	Mus musculus RIKEN cDNA 9030619P08 gene (9030619P08Rik), non-coding RNA [NR_108041]
A_52_P511821	0,99	6,43	0,0056	Wdfy1	Mus musculus WD repeat and FYVE domain containing 1 (Wdfy1), transcript variant 2, mRNA [NM_027057]
A_55_P2158498	0,99	4,70	0,0198	Btk	Mus musculus Bruton agammaglobulinemia tyrosine kinase (Btk), mRNA [NM_013482]
A_51_P413539	0,99	5,31	0,0122	Nek6	Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 6 (Nek6), transcript variant 2, mRNA [NM_021606]
A_55_P2012369	0,99	3,85	0,0406	Eea1	Mus musculus early endosome antigen 1 (Eea1), mRNA [NM_001001932]
A_51_P432403	0,99	4,42	0,0252	Fgfr2	Mus musculus fibroblast growth factor receptor 2 (Fgfr2), transcript variant 1, mRNA [NM_010207]
A_55_P1953252	0,99	8,53	0,0017	Ctnnd1	Mus musculus catenin (cadherin associated protein), delta 1 (Ctnnd1), transcript variant 1, mRNA [NM_007615]
A_55_P2266744	0,99	4,21	0,0299	B930095M22Rik	Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:B930095M22 product:unclassifiable, full insert sequence. [AK047590]
A_55_P2002846	0,98	4,21	0,0299	Cystm1	Mus musculus cysteine-rich transmembrane module containing 1 (Cystm1), mRNA [NM_001081365]
A_51_P405397	0,98	7,19	0,0034	Ecm1	Mus musculus extracellular matrix protein 1 (Ecm1), transcript variant 1, mRNA [NM_007899]
A_55_P1958250	0,98	9,19	0,0011	Rnf114	Mus musculus ring finger protein 114 (Rnf114), mRNA [NM_030743]

A_55_P2076772	0,98	10,43	0,0006	Hspa5	Mus musculus heat shock protein 5 (Hspa5), transcript variant 2, mRNA [NM_022310]
A_52_P168023	0,98	4,16	0,0312	Klhl15	Mus musculus kelch-like 15 (Klhl15), transcript variant 1, mRNA [NM_001039061]
A_55_P1957244	0,98	3,86	0,0403	Vmn2r115	Mus musculus vomeronasal 2, receptor 115 (Vmn2r115), mRNA [NM_001104579]
A_55_P2086128	0,98	4,58	0,0220	Fa2h	Mus musculus fatty acid 2-hydroxylase (Fa2h), mRNA [NM_178086]
A_52_P98625	0,98	5,57	0,0100	Sowahc	Mus musculus sosondowah ankyrin repeat domain family member C (Sowahc), mRNA [NM_172939]
A_55_P1992834	0,98	7,02	0,0038	Socs2	Mus musculus suppressor of cytokine signaling 2 (Socs2), transcript variant 1, mRNA [NM_007706]
A_55_P2046348	0,97	7,00	0,0039	Itpril2	Mus musculus inositol 1,4,5-triphosphate receptor interacting protein-like 2 (Itpril2), mRNA [NM_001033380]
A_52_P49601	0,97	7,33	0,0032	Fth1	Mus musculus ferritin heavy chain 1 (Fth1), transcript variant 1, mRNA [NM_010239]
A_55_P1989321	0,97	7,40	0,0031	Sat1	Mus musculus spermidine/spermine N1-acetyl transferase 1 (Sat1), transcript variant 2, mRNA [NM_001291865]
A_51_P293688	0,97	7,76	0,0025	Rab32	Mus musculus RAB32, member RAS oncogene family (Rab32), mRNA [NM_026405]
A_55_P2031631	0,97	5,91	0,0080	Igf1	Mus musculus insulin-like growth factor 1 (Igf1), transcript variant 1, mRNA [NM_010512]
A_51_P449048	0,97	7,31	0,0033	Cndp2	Mus musculus CNDP dipeptidase 2 (metallopeptidase M20 family) (Cndp2), transcript variant 2, mRNA [NM_023149]
A_52_P315976	0,97	5,08	0,0147	Tpm2	Mus musculus tropomyosin 2, beta (Tpm2), transcript variant 1, mRNA [NM_009416]
A_55_P2133195	0,97	6,06	0,0072	Gm4951	Mus musculus predicted gene 4951 (Gm4951), mRNA [NM_001033767]
A_51_P303424	0,97	7,32	0,0032	Itgax	Mus musculus integrin alpha X (Itgax), mRNA [NM_021334]
A_51_P107362	0,96	9,30	0,0011	Socs2	Mus musculus suppressor of cytokine signaling 2 (Socs2), transcript variant 1, mRNA [NM_007706]
A_51_P202050	0,96	5,01	0,0154	Dtx1	Mus musculus dextel 1 homolog (Drosophila) (Dtx1), mRNA [NM_008052]
A_55_P1958857	0,96	5,34	0,0120	Nek6	Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 6 (Nek6), transcript variant 1, mRNA [NM_001159631]
A_55_P2071132	0,96	4,72	0,0194	Tnfrsf23	Mus musculus tumor necrosis factor receptor superfamily, member 23 (Tnfrsf23), mRNA [NM_024290]
A_55_P2133248	0,96	5,16	0,0138	Gm8995	PREDICTED: Mus musculus predicted gene 8995 (Gm8995), misc_RNA [XR_378400]
A_55_P2025760	0,96	7,20	0,0034	Adam9	Mus musculus a disintegrin and metallopeptidase domain 9 (meltrin gamma) (Adam9), transcript variant 1, mRNA [NM_001270996]
A_55_P2107203	0,96	7,36	0,0032	Gpr137b	Mus musculus G protein-coupled receptor 137B (Gpr137b), mRNA [NM_031999]
A_55_P2082989	0,96	6,04	0,0073	5430435G22 Rik	Mus musculus RIKEN cDNA 5430435G22 gene (5430435G22Rik), mRNA [NM_145509]
A_55_P2052834	0,95	5,34	0,0120	Lst1	Mus musculus leukocyte specific transcript 1 (Lst1), mRNA [NM_010734]
A_55_P2002667	0,95	6,46	0,0055	Trim26	Mus musculus tripartite motif-containing 26 (Trim26), transcript variant 3, mRNA [NM_001286726]
A_51_P403636	0,95	5,03	0,0152	Smad7	Mus musculus SMAD family member 7 (Smad7), mRNA [NM_001042660]
A_55_P2325803	0,95	7,51	0,0029	Tnfrsf11a	Mus musculus tumor necrosis factor receptor superfamily, member 11a (Tnfrsf11a), mRNA [NM_009399]
A_52_P654703	0,95	3,70	0,0469	Trim69	Mus musculus tripartite motif-containing 69 (Trim69), mRNA [NM_080510]
A_55_P2056325	0,94	4,51	0,0235	Anxa3	Mus musculus annexin A3 (Anxa3), mRNA [NM_013470]
A_55_P1962304	0,94	4,23	0,0296	Plac8	Mus musculus placenta-specific 8 (Plac8), mRNA [NM_139198]
A_55_P2375121	0,94	3,71	0,0463	AI225934	Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230323N14 product:unclassifiable, full insert sequence, [AK045926]
A_55_P1997604	0,94	4,34	0,0270	Pla2g4a	Mus musculus phospholipase A2, group IVA (cytosolic, calcium-dependent) (Pla2g4a), mRNA [NM_008869]
A_55_P1983448	0,94	6,33	0,0060	S100a4	Mus musculus S100 calcium binding protein A4 (S100a4), mRNA [NM_011311]
A_51_P100852	0,94	4,60	0,0217	Fam26f	Mus musculus family with sequence similarity 26, member F (Fam26f), mRNA [NM_175449]
A_55_P2431118	0,94	7,52	0,0029	Itsn1	Mus musculus intersectin 1 (SH3 domain protein 1A) (Itsn1), transcript variant 2, mRNA [NM_001110275]
A_51_P355753	0,94	9,13	0,0012	Hic1	Mus musculus hypermethylated in cancer 1 (Hic1), transcript variant 1, mRNA [NM_010430]
A_55_P2060892	0,93	4,35	0,0267	Gm3238	Mus musculus predicted gene 3238 (Gm3238), mRNA [NM_001101630]
A_55_P1968245	0,93	7,03	0,0038	Ftl1	Mus musculus ferritin light chain 1 (Ftl1), mRNA [NM_010240]
A_51_P463120	0,93	3,85	0,0407	Ptplad2	Mus musculus protein tyrosine phosphatase-like A domain containing 2 (Ptplad2), mRNA [NM_025760]
A_55_P2125588	0,93	4,29	0,0280	Pdgfa	Mus musculus platelet derived growth factor, alpha (Pdgfa), mRNA [NM_008808]
A_52_P1020860	0,92	5,83	0,0084	AW112010	Mus musculus expressed sequence AW112010 (AW112010), long non-coding RNA [NR_102366]
A_55_P2141699	0,92	7,00	0,0038	Rnf149	Mus musculus ring finger protein 149 (Rnf149), mRNA [NM_001033135]
A_66_P107379	0,92	3,71	0,0465	Mdk	Mus musculus midkine (Mdk), transcript variant 1, mRNA [NM_010784]
A_52_P641758	0,92	7,62	0,0027	Ggct	Mus musculus gamma-glutamyl cyclotransferase (Ggct), mRNA [NM_026637]
A_55_P2181738	0,92	5,08	0,0147	Lyz1	Mus musculus lysozyme 1 (Lyz1), mRNA [NM_013590]
A_55_P1953728	0,92	4,18	0,0308	Nes	Mus musculus nestin (Nes), mRNA [NM_016701]

A_55_P2143311	0,92	6,39	0,0057	Pdxk	Mus musculus pyridoxal (pyridoxine, vitamin B6) kinase (Pdxk), mRNA [NM_172134]
A_55_P2046802	0,91	5,27	0,0127	Mlkl	Mus musculus mixed lineage kinase domain-like (Mlkl), mRNA [NM_029005]
A_51_P421140	0,91	3,98	0,0364	Tubb6	Mus musculus tubulin, beta 6 class V (Tubb6), mRNA [NM_026473]
A_51_P122035	0,91	3,91	0,0384	Nipa1	Mus musculus non imprinted in Prader-Willi/Angelman syndrome 1 homolog (human) (Nipa1), mRNA [NM_153578]
A_55_P2007470	0,91	4,11	0,0330	Pdgfa	Mus musculus platelet derived growth factor, alpha (Pdgfa), mRNA [NM_008808]
A_55_P2131088	0,91	5,86	0,0082	Vwa5a	Mus musculus von Willebrand factor A domain containing 5A (Vwa5a), transcript variant 1, mRNA [NM_172767]
A_55_P2046145	0,91	3,87	0,0398	Gm10693	PREDICTED: Mus musculus predicted pseudogene 10693 (Gm10693), misc_RNA [XR_403899]
A_51_P246677	0,91	5,70	0,0092	Rec8	Mus musculus REC8 meiotic recombination protein (Rec8), mRNA [NM_020002]
A_51_P237754	0,91	6,59	0,0050	H2-T23	Mus musculus histocompatibility 2, T region locus 23 (H2-T23), mRNA [NM_010398]
A_52_P52618	0,90	4,60	0,0216	Csf2rb	Mus musculus colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) (Csf2rb), mRNA [NM_007780]
A_51_P144349	0,90	3,80	0,0428	Dtx4	Mus musculus deltex 4 homolog (Drosophila) (Dtx4), mRNA [NM_172442]
A_51_P129012	0,90	6,05	0,0073	B2m	Mus musculus beta-2 microglobulin (B2m), mRNA [NM_009735]
A_55_P2107207	0,90	7,47	0,0029	Gpr137b	PREDICTED: Mus musculus G protein-coupled receptor 137B (Gpr137b), transcript variant X2, misc_RNA [XR_382078]
A_51_P203955	0,90	6,47	0,0054	Gbp2	Mus musculus guanylate binding protein 2 (Gbp2), mRNA [NM_010260]
A_52_P183181	0,90	4,87	0,0174	Adar	Mus musculus adenosine deaminase, RNA-specific (Adar), transcript variant 2, mRNA [NM_001038587]
A_55_P1990210	0,90	7,62	0,0027	Scpep1	Mus musculus serine carboxypeptidase 1 (Scpep1), mRNA [NM_029023]
A_55_P1957700	0,90	4,39	0,0258	Ttl11	Mus musculus tubulin tyrosine ligase-like family, member 11 (Ttl11), mRNA [NM_029774]
A_55_P2187121	0,90	8,55	0,0016	Gpr137b-ps	Mus musculus G protein-coupled receptor 137B, pseudogene (Gpr137b-ps), non-coding RNA [NR_003568]
A_52_P110070	0,90	5,80	0,0086	5730416F02 Rik	Mus musculus RIKEN cDNA 5730416F02 gene (5730416F02Rik), non-coding RNA [NR_033596]
A_66_P130646	0,90	3,79	0,0430	Hist1h4h	Mus musculus histone cluster 1, H4h (Hist1h4h), mRNA [NM_153173]
A_55_P1968723	0,90	5,08	0,0147	Ccrn4l	Mus musculus CCR4 carbon catabolite repression 4-like (S. cerevisiae) (Ccrn4l), mRNA [NM_009834]
A_55_P1973930	0,90	3,67	0,0480	Krt79	Mus musculus keratin 79 (Krt79), mRNA [NM_146063]
A_52_P380329	0,89	6,60	0,0049	Papd7	Mus musculus PAP associated domain containing 7 (Papd7), transcript variant 1, mRNA [NM_198600]
A_51_P509669	0,89	8,42	0,0018	Uap11l	Mus musculus UDP-N-actetylglucosamine pyrophosphorylase 1-like 1 (Uap11l), mRNA [NM_001033293]
A_55_P2112599	0,89	5,97	0,0077	Lgals8	Mus musculus lectin, galactose binding, soluble 8 (Lgals8), transcript variant 4, mRNA [NM_001291057]
A_51_P247496	0,89	3,73	0,0457	Gm9767	Mus musculus predicted gene 9767 (Gm9767), long non-coding RNA [NR_028030]
A_51_P242166	0,89	7,16	0,0035	Lap3	Mus musculus leucine aminopeptidase 3 (Lap3), mRNA [NM_024434]
A_51_P497985	0,89	4,90	0,0170	C2	Mus musculus complement component 2 (within H-2S) (C2), mRNA [NM_013484]
A_55_P2055607	0,89	3,65	0,0489	Enpp1	Mus musculus ectonucleotide pyrophosphatase/phosphodiesterase 1 (Enpp1), mRNA [NM_008813]
A_55_P2096917	0,89	4,84	0,0178	Mreg	Mus musculus melanoregulin (Mreg), mRNA [NM_001005423]
A_55_P2033120	0,89	5,07	0,0147	Srxn1	Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA [NM_029688]
A_52_P570266	0,89	8,71	0,0015	Psmb10	Mus musculus proteasome (prosome, macropain) subunit, beta type 10 (Psmb10), mRNA [NM_013640]
A_55_P2144386	0,89	3,99	0,0361	Emr1	Mus musculus EGF-like module containing, mucin-like, hormone receptor-like sequence 1 (Emr1), mRNA [NM_010130]
A_55_P2099560	0,89	7,39	0,0031	Apobec1	Mus musculus apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1 (Apobec1), transcript variant 1, mRNA [NM_031159]
A_55_P2211164	0,89	6,42	0,0056	5330406M23 Rik	Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330406M23 product:unclassifiable, full insert sequence. [AK017236]
A_55_P2097259	0,88	6,56	0,0051	Zufsp	PREDICTED: Mus musculus zinc finger with UFM1-specific peptidase domain (Zufsp), transcript variant X2, mRNA [XM_006512868]
A_52_P512817	0,88	5,60	0,0098	Shisa5	Mus musculus shisa homolog 5 (Xenopus laevis) (Shisa5), transcript variant 1, mRNA [NM_025858]
A_55_P2068570	0,88	4,68	0,0200	Gm10428	Mus musculus 15 days embryo head cDNA, RIKEN full-length enriched library, clone:D930008E18 product:hypothetical protein, full insert sequence. [AK142775]
A_52_P51078	0,88	6,71	0,0046	Ctsh	Mus musculus cathepsin H (Ctsh), mRNA [NM_007801]
A_55_P1998631	0,88	5,03	0,0151	Capg	Mus musculus capping protein (actin filament), gelsolin-like (Capg), transcript variant 2, mRNA [NM_001042534]
A_55_P2019699	0,88	5,23	0,0131	Samhd1	Mus musculus SAM domain and HD domain, 1 (Samhd1), transcript variant 2, mRNA [NM_001139520]
A_55_P2056719	0,88	6,12	0,0069	AF067061	Mus musculus cDNA sequence AF067061 (AF067061), mRNA [NM_199060]
A_55_P2272007	0,88	9,33	0,0011	Lrrfp2	Mus musculus leucine rich repeat (in FLII) interacting protein 2 (Lrrfp2), transcript variant 1, mRNA [NM_001164838]
A_51_P246317	0,88	7,13	0,0035	Mt2	Mus musculus metallothionein 2 (Mt2), mRNA [NM_008630]
A_52_P399990	0,87	4,48	0,0240	B4galt2	Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 2 (B4galt2), transcript variant 2, mRNA [NM_017377]

A_55_P1960735	0,87	6,10	0,0070	Gdf15	Mus musculus growth differentiation factor 15 (Gdf15), mRNA [NM_011819]
A_66_P121976	0,87	3,71	0,0465	Slc4a11	Mus musculus solute carrier family 4, sodium bicarbonate transporter-like, member 11 (Slc4a11), mRNA [NM_001081162]
A_66_P136228	0,87	6,97	0,0039	Rai14	Mus musculus retinoic acid induced 14 (Rai14), transcript variant 1, mRNA [NM_030690]
A_51_P155763	0,87	6,24	0,0064	Ascc3	Mus musculus activating signal cointegrator 1 complex subunit 3 (Ascc3), mRNA [NM_198007]
A_51_P284946	0,87	4,74	0,0192	Rnd3	Mus musculus Rho family GTPase 3 (Rnd3), mRNA [NM_028810]
A_55_P1983958	0,87	10,35	0,0006	Gm20746	PREDICTED: Mus musculus predicted gene, 20746 (Gm20746), mRNA [XM_006542883]
A_55_P2153600	0,87	4,31	0,0276	G630090E17 Rik	Mus musculus RIKEN cDNA G630090E17 gene (G630090E17Rik), mRNA [NM_001173500]
A_52_P257502	0,87	4,04	0,0346	Igfbp4	Mus musculus insulin-like growth factor binding protein 4 (Igfbp4), mRNA [NM_010517]
A_55_P2165719	0,86	7,85	0,0024	Pcyt1a	Mus musculus phosphate cytidyltransferase 1, choline, alpha isoform (Pcyt1a), transcript variant 1, mRNA [NM_001163159]
A_55_P2100739	0,86	5,61	0,0097	Cnbg1	Mus musculus cyclic nucleotide gated channel beta 1 (Cnbg1), transcript variant 2, mRNA [NM_145601]
A_55_P1954718	0,86	4,08	0,0335	Cyb561	Mus musculus cytochrome b-561 (Cyb561), mRNA [NM_007805]
A_55_P2013357	0,86	7,27	0,0034	Renbp	Mus musculus renin binding protein (Renbp), transcript variant 1, mRNA [NM_023132]
A_55_P2094925	0,86	5,88	0,0082	Srgn	Mus musculus serglycin (Srgn), mRNA [NM_011157]
A_55_P2000409	0,86	3,68	0,0478	Rab44	Mus musculus RAB44, member RAS oncogene family (Rab44), mRNA [NM_001002786]
A_66_P120567	0,86	6,10	0,0069	Anxa1	Mus musculus annexin A1 (Anxa1), mRNA [NM_010730]
A_55_P1977929	0,86	5,94	0,0078	Itgam	Mus musculus integrin alpha M (Itgam), transcript variant 1, mRNA [NM_001082960]
A_55_P2113210	0,86	7,27	0,0034	Cyth4	Mus musculus cytohesin 4 (Cyth4), mRNA [NM_028195]
A_52_P121502	0,86	4,21	0,0299	Plip	Mus musculus plasma membrane proteolipid (Plip), mRNA [NM_026385]
A_51_P106799	0,86	9,46	0,0010	Pparg	Mus musculus peroxisome proliferator activated receptor gamma (Pparg), transcript variant 2, mRNA [NM_011146]
A_55_P1984730	0,85	8,26	0,0019	Sgpl1	Mus musculus sphingosine phosphate lyase 1 (Sgpl1), mRNA [NM_009163]
A_51_P392687	0,85	6,01	0,0074	Vim	Mus musculus vimentin (Vim), mRNA [NM_011701]
A_55_P2137121	0,85	7,12	0,0036	Sp140	Mus musculus Sp140 nuclear body protein (Sp140), mRNA [NM_001013817]
A_51_P321886	0,85	6,72	0,0046	Cmtm3	Mus musculus CKLF-like MARVEL transmembrane domain containing 3 (Cmtm3), mRNA [NM_024217]
A_51_P112355	0,85	5,76	0,0087	Igtp	Mus musculus interferon gamma induced GTPase (Igtp), mRNA [NM_018738]
A_55_P1958400	0,85	5,42	0,0112	LOC102640804	PREDICTED: Mus musculus uncharacterized LOC102640804 (LOC102640804), mRNA [XM_006517809]
A_66_P116632	0,85	5,88	0,0082	Mafg	Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian) (Mafg), mRNA [NM_010756]
A_51_P447976	0,85	6,94	0,0039	Fam46c	Mus musculus family with sequence similarity 46, member C (Fam46c), mRNA [NM_001142952]
A_51_P338443	0,85	6,50	0,0054	Angptl4	Mus musculus angiopoietin-like 4 (Angptl4), mRNA [NM_020581]
A_65_P07361	0,85	4,51	0,0235	Trim14	Mus musculus tripartite motif-containing 14 (Trim14), mRNA [NM_029077]
A_52_P195839	0,84	4,99	0,0156	Ctsc	Mus musculus cathepsin C (Ctsc), mRNA [NM_009982]
A_51_P346668	0,84	4,74	0,0192	Irf5	Mus musculus interferon regulatory factor 5 (Irf5), transcript variant 2, mRNA [NM_012057]
A_52_P520495	0,84	3,79	0,0428	Vcam1	Mus musculus vascular cell adhesion molecule 1 (Vcam1), mRNA [NM_011693]
A_55_P2013391	0,84	4,22	0,0299	Gm4402	Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4732470F13 product:unclassifiable, full insert sequence. [AK028917]
A_55_P1953361	0,84	4,22	0,0298	Luc7l2	Mus musculus LUC7-like 2 (S. cerevisiae) (Luc7l2), transcript variant 1, mRNA [NM_138680]
A_55_P2019113	0,84	5,45	0,0109	Apol7b	Mus musculus apolipoprotein L 7b (Apol7b), mRNA [NM_001024848]
A_51_P229163	0,84	3,75	0,0448	Crhr1	Mus musculus corticotropin releasing hormone receptor 1 (Crhr1), mRNA [NM_007762]
A_55_P2123391	0,84	4,39	0,0258	4930594M22 Rik	Mus musculus adult inner ear cDNA, RIKEN full-length enriched library, clone:F930011C10 product:hypothetical protein, full insert sequence. [AK157947]
A_51_P476601	0,84	5,50	0,0105	Ly96	Mus musculus lymphocyte antigen 96 (Ly96), transcript variant 1, mRNA [NM_016923]
A_55_P2074636	0,83	7,67	0,0026	Adap1	Mus musculus ArfGAP with dual PH domains 1 (Adap1), mRNA [NM_172723]
A_51_P275101	0,83	4,20	0,0302	Chst11	Mus musculus carbohydrate sulfotransferase 11 (Chst11), mRNA [NM_021439]
A_55_P1978465	0,83	5,08	0,0147	H2-Q5	Mus musculus histocompatibility 2, Q region locus 5 (H2-Q5), non-coding RNA [NR_051981]
A_55_P2027259	0,83	4,98	0,0158	Zcchc2	Mus musculus zinc finger, CCHC domain containing 2 (Zcchc2), transcript variant B, mRNA [NM_001122675]
A_51_P506417	0,83	4,91	0,0169	Krt14	Mus musculus keratin 14 (Krt14), mRNA [NM_016958]
A_55_P1973563	0,83	4,54	0,0229	5730559C18 Rik	Mus musculus RIKEN cDNA 5730559C18 gene (5730559C18Rik), mRNA [NM_028872]
A_66_P112305	0,83	5,22	0,0132	Myo1f	Mus musculus myosin IF (Myo1f), mRNA [NM_053214]
A_51_P306067	0,83	7,27	0,0034	Lpp	Mus musculus LIM domain containing preferred translocation partner in lipoma (Lpp), transcript variant 1, mRNA [NM_178665]

A_55_P1954986	0,83	5,00	0,0155	Elk1	Mus musculus ELK1, member of ETS oncogene family (Elk1), mRNA [NM_007922]
A_55_P2163857	0,83	4,32	0,0274	Trim12c	Mus musculus tripartite motif-containing 12C (Trim12c), transcript variant 1, mRNA [NM_001146007]
A_51_P241995	0,82	4,23	0,0295	Col5a3	Mus musculus collagen, type V, alpha 3 (Col5a3), mRNA [NM_016919]
A_55_P2085905	0,82	3,99	0,0361	Anpep	Mus musculus alanyl (membrane) aminopeptidase (Anpep), mRNA [NM_008486]
A_55_P1965233	0,82	4,37	0,0264	Sh3tc1	Mus musculus SH3 domain and tetratricopeptide repeats 1 (Sh3tc1), mRNA [NM_194344]
A_51_P171999	0,82	5,73	0,0091	Apoe	Mus musculus apolipoprotein E (Apoe), mRNA [NM_009696]
A_55_P2031496	0,82	4,83	0,0179	Rufy3	Mus musculus RUN and FYVE domain containing 3 (Rufy3), transcript variant 3, mRNA [NM_001289776]
A_55_P2043837	0,82	8,78	0,0015	Cmtr1	Mus musculus cap methyltransferase 1 (Cmtr1), mRNA [NM_028791]
A_66_P119518	0,82	6,96	0,0039	Tuba8	Mus musculus tubulin, alpha 8 (Tuba8), mRNA [NM_017379]
A_55_P2066299	0,82	4,84	0,0178	Gpr137b	Mus musculus G protein-coupled receptor 137B (Gpr137b), mRNA [NM_031999]
A_55_P2035613	0,81	5,62	0,0097	Tmbim1	Mus musculus transmembrane BAX inhibitor motif containing 1 (Tmbim1), mRNA [NM_027154]
A_55_P2005552	0,81	3,94	0,0376	Arhgef10l	Mus musculus Rho guanine nucleotide exchange factor (GEF) 10-like (Arhgef10l), transcript variant 4, mRNA [NM_001290803]
A_55_P2015520	0,81	7,07	0,0037	Plekha1	Mus musculus pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1 (Plekha1), mRNA [NM_133942]
A_55_P2137309	0,81	3,68	0,0475	Kctd11	Mus musculus potassium channel tetramerisation domain containing 11 (Kctd11), mRNA [NM_153143]
A_55_P2063251	0,81	6,35	0,0059	Dusp3	Mus musculus dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related) (Dusp3), mRNA [NM_028207]
A_55_P1978511	0,81	5,81	0,0086	H2-Q7	Mus musculus histocompatibility 2, Q region locus 7 (H2-Q7), transcript variant 1, mRNA [NM_010394]
A_51_P469008	0,81	5,59	0,0099	Ehd1	Mus musculus EH-domain containing 1 (Ehd1), mRNA [NM_010119]
A_55_P2088401	0,81	7,68	0,0026	H2-T9	Mus musculus histocompatibility 2, T region locus 9 (H2-T9), mRNA [NM_010399]
A_55_P2156638	0,80	7,22	0,0034	Gpr114	Mus musculus G protein-coupled receptor 114 (Gpr114), transcript variant 1, mRNA [NM_001145972]
A_55_P2123673	0,80	5,89	0,0081	Trnp1	Mus musculus TMF1-regulated nuclear protein 1 (Trnp1), mRNA [NM_001081156]
A_55_P2027278	0,80	7,37	0,0031	Gas2l1	Mus musculus growth arrest-specific 2 like 1 (Gas2l1), transcript variant beta, mRNA [NM_144560]
A_51_P282508	0,80	6,25	0,0063	Rhoc	Mus musculus ras homolog gene family, member C (Rhoc), transcript variant 2, mRNA [NM_007484]
A_55_P2062418	0,80	5,87	0,0082	Atp6v0a1	Mus musculus ATPase, H+ transporting, lysosomal V0 subunit A1 (Atp6v0a1), transcript variant 4, mRNA [NM_001243051]
A_66_P131645	0,80	4,47	0,0241	Ahnak2	PREDICTED: Mus musculus AHNAK nucleoprotein 2 (Ahnak2), transcript variant X1, mRNA [XM_006543025]
A_52_P359502	0,80	7,38	0,0031	Pdxk	Mus musculus pyridoxal (pyridoxine, vitamin B6) kinase (Pdxk), mRNA [NM_172134]
A_55_P1960238	0,80	4,64	0,0208	Slc2a6	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 6 (Slc2a6), transcript variant 1, mRNA [NM_172659]
A_55_P2201454	0,80	5,09	0,0146	2310079F09 Rik	Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library, clone:D230018B15 product:unclassifiable, full insert sequence. [AK142062]
A_55_P2123220	0,80	3,86	0,0401	Slc35e1	Mus musculus solute carrier family 35, member E1 (Slc35e1), mRNA [NM_177766]
A_55_P1994603	0,80	3,99	0,0361	Its1	Mus musculus intersectin 1 (SH3 domain protein 1A) (Its1), transcript variant 1, mRNA [NM_010587]
A_55_P2114589	0,80	3,84	0,0409	Kcnk16	Mus musculus potassium channel, subfamily K, member 16 (Kcnk16), mRNA [NM_029006]
A_55_P1990919	0,80	6,45	0,0055	Msr1	Mus musculus methionine sulfoxide reductase B1 (Msr1), mRNA [NM_013759]
A_55_P2024461	0,80	5,43	0,0111	Tbkb1	Mus musculus TBK1 binding protein 1 (Tbkb1), mRNA [NM_198100]
A_51_P243914	0,80	7,60	0,0027	Skap2	Mus musculus src family associated phosphoprotein 2 (Skap2), mRNA [NM_018773]
A_55_P2025611	0,79	10,07	0,0008	Psme2b	Mus musculus protease (prosome, macropain) activator subunit 2B (Psme2b), mRNA [NM_001281472]
A_52_P375546	0,79	3,63	0,0498	Lrrc46	Mus musculus leucine rich repeat containing 46 (Lrrc46), mRNA [NM_027026]
A_52_P157316	0,79	3,67	0,0478	Trim34a	Mus musculus tripartite motif-containing 34A (Trim34a), mRNA [NM_030684]
A_66_P122110	0,79	7,68	0,0026	Mitd1	Mus musculus MIT, microtubule interacting and transport, domain containing 1 (Mitd1), mRNA [NM_026913]
A_55_P2112424	0,79	4,53	0,0231	Madd	Mus musculus MAP-kinase activating death domain (Madd), transcript variant 11, mRNA [NM_001177720]
A_55_P2000487	0,79	3,98	0,0363	Sreb1	Mus musculus sterol regulatory element binding factor 2 (Sreb1), mRNA [NM_033218]
A_55_P2160387	0,79	3,96	0,0369	Cxcl11	Mus musculus chemokine (C-X-C motif) ligand 11 (Cxcl11), transcript variant 1, mRNA [NM_019494]
A_55_P2083649	0,79	6,95	0,0039	Alas1	Mus musculus aminolevulinic acid synthase 1 (Alas1), transcript variant 1, mRNA [NM_001291835]
A_52_P359621	0,79	5,25	0,0128	Luzp1	Mus musculus leucine zipper protein 1 (Luzp1), mRNA [NM_024452]
A_55_P2129920	0,79	4,92	0,0167	Chd7	Mus musculus chromodomain helicase DNA binding protein 7 (Chd7), mRNA [NM_001277149]
A_55_P2027436	0,79	8,07	0,0022	Bri3	Mus musculus brain protein I3 (Bri3), transcript variant 1, mRNA [NM_018772]
A_52_P403443	0,79	4,11	0,0328	Tns3	Mus musculus tensin 3 (Tns3), mRNA [NM_001083587]
A_51_P198434	0,79	5,73	0,0090	H2-K1	Mus musculus histocompatibility 2, K1, K region (H2-K1), transcript variant 1, mRNA [NM_001001892]



A_65_P19395	0,78	5,41	0,0113	H2-D1	Mus musculus histocompatibility 2, D region locus 1 (H2-D1), mRNA [NM_010380]
A_55_P2051334	0,78	4,90	0,0171	H2-K2	Mus musculus histocompatibility 2, K region locus 2 (H2-K2), non-coding RNA [NR_004446]
A_55_P1974567	0,78	4,57	0,0223	Plch2	Mus musculus phospholipase C, eta 2 (Plch2), transcript variant 1, mRNA [NM_175556]
A_55_P2079064	0,78	4,46	0,0243	Ppnr	mp41=circadian clock and light-regulated gene [mice, BALB/c, brain, mRNA, 2857 nt]. [S76755]
A_51_P341465	0,78	7,33	0,0032	Csf2ra	Mus musculus colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage) (Csf2ra), mRNA [NM_009970]
A_55_P1963150	0,78	5,67	0,0094	Creg1	Mus musculus cellular repressor of E1A-stimulated genes 1 (Creg1), mRNA [NM_011804]
A_55_P2410304	0,78	6,53	0,0052	Iigp1	Mus musculus interferon inducible GTPase 1 (Iigp1), transcript variant 2, mRNA [NM_001146275]
A_55_P2184493	0,78	5,08	0,0147	Sp100	nuclear antigen Sp100 [Source:MGI Symbol;Acc:MGI:109561] [ENSMUST00000141998]
A_55_P2049647	0,78	5,90	0,0081	H2-K1	Mus musculus histocompatibility 2, K1, K region (H2-K1), transcript variant 1, mRNA [NM_001001892]
A_55_P2140646	0,78	6,15	0,0067	Creg1	Mus musculus cellular repressor of E1A-stimulated genes 1 (Creg1), mRNA [NM_011804]
A_52_P507382	0,78	6,34	0,0059	Unc93b1	Mus musculus unc-93 homolog B1 (C. elegans) (Unc93b1), transcript variant 1, mRNA [NM_019449]
A_65_P15245	0,78	3,70	0,0468	Nrp2	Mus musculus neuropilin 2 (Nrp2), transcript variant 5, mRNA [NM_001077406]
A_55_P2106078	0,77	3,66	0,0485	Glrx2	Mus musculus glutaredoxin 2 (thioltransferase) (Glrx2), transcript variant 1, mRNA [NM_001038592]
A_55_P2006479	0,77	4,89	0,0172	3300002108Rik	Mus musculus RIKEN cDNA 3300002108 gene (3300002108Rik), mRNA [NM_027017]
A_55_P1959061	0,77	4,43	0,0250	Oas1b	Mus musculus 2'-5' oligoadenylate synthetase 1B (Oas1b) mRNA, complete cds. [AF328926]
A_55_P1998601	0,77	4,35	0,0268	Slc17a9	Mus musculus solute carrier family 17, member 9 (Slc17a9), mRNA [NM_183161]
A_55_P2127303	0,77	7,50	0,0029	Spsb2	Mus musculus splA/ryanodine receptor domain and SOCS box containing 2 (Spsb2), mRNA [NM_013539]
A_51_P139678	0,77	5,29	0,0123	Sprr1a	Mus musculus small proline-rich protein 1A (Sprr1a), mRNA [NM_009264]
A_55_P2125049	0,77	7,03	0,0038	Gm11127	Mus musculus predicted gene 11127 (Gm11127), mRNA [NM_001199967]
A_55_P2019009	0,77	4,70	0,0197	Ncoa7	Mus musculus nuclear receptor coactivator 7 (Ncoa7), transcript variant 1, mRNA [NM_172495]
A_55_P2048650	0,77	4,00	0,0359	Dennd4a	Mus musculus visual cortex cDNA, RIKEN full-length enriched library, clone:K430341N21 product: hypothetical protein, full insert sequence. [AK158840]
A_55_P2028259	0,77	3,96	0,0369	Rhbd2	Mus musculus rhomboid 5 homolog 2 (Drosophila) (Rhbd2), transcript variant 1, mRNA [NM_172572]
A_51_P118132	0,77	6,74	0,0045	Skil	Mus musculus SKI-like (Skil), transcript variant 1, mRNA [NM_011386]
A_55_P2175400	0,77	4,67	0,0201	Zfp467	Mus musculus zinc finger protein 467 (Zfp467), transcript variant 1, mRNA [NM_020589]
A_55_P2050488	0,77	4,30	0,0279	Cep170b	Mus musculus centrosomal protein 170B (Cep170b), mRNA [NM_001024602]
A_55_P2180491	0,77	7,23	0,0034	Rrbp1	Mus musculus ribosome binding protein 1 (Rrbp1), transcript variant 2, mRNA [NM_133626]
A_55_P2135331	0,77	5,52	0,0104	Evl	Mus musculus Ena-vasodilator stimulated phosphoprotein (Evl), transcript variant 1, mRNA [NM_001163394]
A_66_P132613	0,77	3,84	0,0409	C230057M02Rik	PREDICTED: Mus musculus RIKEN cDNA C230057M02 gene (C230057M02Rik), transcript variant X1, misc_RNA [XR_388139]
A_55_P2048607	0,76	4,45	0,0245	Hp	Mus musculus haptoglobin (Hp), mRNA [NM_017370]
A_51_P359603	0,76	4,60	0,0217	Itgb7	Mus musculus integrin beta 7 (Itgb7), mRNA [NM_013566]
A_55_P2008297	0,76	3,75	0,0450	Cd300a	Mus musculus CD300A antigen (Cd300a), mRNA [NM_170758]
A_51_P315904	0,76	4,65	0,0207	Gadd45g	Mus musculus growth arrest and DNA-damage-inducible 45 gamma (Gadd45g), mRNA [NM_011817]
A_55_P1992680	0,76	3,76	0,0442	Ubt1	Mus musculus upstream binding transcription factor, RNA polymerase I (Ubt1), transcript variant 1, mRNA [NM_011551]
A_55_P1978521	0,76	5,59	0,0099	Gbp10	Mus musculus guanylate-binding protein 10 (Gbp10), mRNA [NM_001039646]
A_52_P332788	0,76	3,84	0,0408	LOC102639105	PREDICTED: Mus musculus nuclear autoantigen Sp-100-like (LOC102639105), mRNA [XM_006496590]
A_55_P2066240	0,76	3,96	0,0369	Zufsp	Mus musculus zinc finger with UFM1-specific peptidase domain (Zufsp), mRNA [NM_028287]
A_55_P2036627	0,76	3,99	0,0361	Pydc3	Mus musculus pyrin domain containing 3 (Pydc3), mRNA [NM_001162938]
A_55_P2042993	0,76	3,76	0,0444	Arl6ip6	Mus musculus ADP-ribosylation factor-like 6 interacting protein 6 (Arl6ip6), mRNA [NM_022989]
A_55_P2178044	0,76	5,87	0,0082	Inpp1	Mus musculus inositol polyphosphate phosphatase-like 1 (Inpp1), transcript variant 1, mRNA [NM_010567]
A_55_P1966660	0,76	7,31	0,0033	LOC547349	Mus musculus MHC class I family member (LOC547349), mRNA [NM_001025208]
A_55_P1989816	0,76	5,25	0,0129	Zbtb7b	Mus musculus zinc finger and BTB domain containing 7B (Zbtb7b), mRNA [NM_009565]
A_51_P256224	0,76	6,56	0,0051	Zfp768	Mus musculus zinc finger protein 768 (Zfp768), mRNA [NM_146202]
A_55_P2029187	0,75	3,66	0,0485	Pde4a	Mus musculus phosphodiesterase 4A, cAMP specific (Pde4a), transcript variant 5, mRNA [NM_183408]
A_55_P2162404	0,75	6,20	0,0065	LOC102637389	PREDICTED: Mus musculus uncharacterized LOC102637389 (LOC102637389), transcript variant X5, ncRNA [XR_402161]
A_55_P1972481	0,75	7,16	0,0035	LOC102641046	PREDICTED: Mus musculus h-2 class I histocompatibility antigen, D-37 alpha chain-like (LOC102641046), partial mRNA [XM_006544801]
A_52_P30550	0,75	5,08	0,0147	Acp2	Mus musculus acid phosphatase 2, lysosomal (Acp2), mRNA [NM_007387]

A_55_P2115442	0,75	4,80	0,0183	Clec2d	Mus musculus C-type lectin domain family 2, member d (Clec2d), mRNA [NM_053109]
A_66_P108380	0,75	3,87	0,0400	A330021E22 Rik	Mus musculus RIKEN cDNA A330021E22 gene (A330021E22Rik), mRNA [NM_172447]
A_66_P116372	0,75	4,44	0,0248	Soat2	Mus musculus sterol O-acyltransferase 2 (Soat2), mRNA [NM_146064]
A_51_P260658	0,75	6,83	0,0042	Amdhd2	Mus musculus amidohydrolase domain containing 2 (Amdhd2), mRNA [NM_172935]
A_55_P2170210	0,75	5,15	0,0140	Ap1s3	Mus musculus adaptor-related protein complex AP-1, sigma 3 (Ap1s3), mRNA [NM_183027]
A_51_P303180	0,75	4,59	0,0219	Fam114a1	Mus musculus family with sequence similarity 114, member A1 (Fam114a1), mRNA [NM_026667]
A_52_P601688	0,75	4,06	0,0341	Abcc1	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 1 (Abcc1), mRNA [NM_008576]
A_55_P2072110	0,75	4,01	0,0356	37865	Mus musculus septin 3 (Sept3), mRNA [NM_011889]
A_55_P2071952	0,75	5,01	0,0155	Wdr92	Mus musculus WD repeat domain 92 (Wdr92), mRNA [NM_178909]
A_51_P343889	0,75	4,06	0,0339	Slc35f6	Mus musculus solute carrier family 35, member F6 (Slc35f6), mRNA [NM_175675]
A_52_P318673	0,75	4,39	0,0258	Saa1	Mus musculus serum amyloid A 1 (Saa1), mRNA [NM_009117]
A_55_P2082604	0,75	3,77	0,0437	Ndor1	Mus musculus NADPH dependent diflavin oxidoreductase 1 (Ndor1), transcript variant 1, mRNA [NM_001082476]
A_52_P508089	0,75	5,88	0,0081	Psap	Mus musculus prosaposin (Psap), transcript variant 2, mRNA [NM_011179]
A_55_P1978506	0,74	6,04	0,0073	H2-Q8	Mus musculus histocompatibility 2, Q region locus 8 (H2-Q8), mRNA [NM_023124]
A_51_P146560	0,74	5,44	0,0110	Msln	Mus musculus mesothelin (Msln), mRNA [NM_018857]
A_51_P279100	0,74	4,89	0,0172	Ptgs1	Mus musculus prostaglandin-endoperoxide synthase 1 (Ptgs1), mRNA [NM_008969]
A_66_P133328	0,74	5,57	0,0100	Tpd52	Mus musculus tumor protein D52 (Tpd52), transcript variant 1, mRNA [NM_001025261]
A_52_P529360	0,74	5,40	0,0114	Rab11fp5	Mus musculus RAB11 family interacting protein 5 (class I) (Rab11fp5), transcript variant 1, mRNA [NM_001003955]
A_51_P224771	0,74	5,45	0,0109	Tmem184b	Mus musculus transmembrane protein 184b (Tmem184b), transcript variant 1, mRNA [NM_172608]
A_51_P301804	0,74	4,51	0,0235	St3gal1	Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 1 (St3gal1), mRNA [NM_009177]
A_55_P2028570	0,74	4,02	0,0351	Sgsh	Mus musculus N-sulfolucosamine sulfohydrolase (sulfamidase) (Sgsh), mRNA [NM_018822]
A_51_P434670	0,74	6,75	0,0045	Qk	Mus musculus quaking (Qk), transcript variant 3, mRNA [NM_021881]
A_55_P1975660	0,74	4,05	0,0343	Hemgn	Mus musculus hemogen (Hemgn), mRNA [NM_053149]
A_51_P338317	0,74	5,12	0,0143	Rhoq	Mus musculus ras homolog gene family, member Q (Rhoq), mRNA [NM_145491]
A_55_P2035504	0,74	5,47	0,0108	Nt5c3	Mus musculus 5'-nucleotidase, cytosolic III (Nt5c3), transcript variant 1, mRNA [NM_026004]
A_55_P2001628	0,74	4,76	0,0188	Rps4l	Mus musculus ribosomal protein S4-like (Rps4l), non-coding RNA [NR_003634]
A_66_P116804	0,74	6,78	0,0044	Smchd1	Mus musculus SMC hinge domain containing 1 (Smchd1), mRNA [NM_028887]
A_66_P105244	0,74	5,61	0,0097	Tor1a1p1	Mus musculus torsin A interacting protein 1 (Tor1a1p1), transcript variant 2, mRNA [NM_144791]
A_55_P1979053	0,74	8,83	0,0014	Atp6v0c	Mus musculus ATPase, H+ transporting, lysosomal V0 subunit C (Atp6v0c), mRNA [NM_009729]
A_55_P1975370	0,74	3,66	0,0487	Apoc1	Mus musculus apolipoprotein C-I (Apoc1), transcript variant 1, mRNA [NM_007469]
A_55_P2064321	0,74	4,32	0,0275	Lama5	Mus musculus laminin, alpha 5 (Lama5), mRNA [NM_001081171]
A_55_P1966734	0,73	4,24	0,0293	Cyp2u1	Mus musculus 16 days embryo lung cDNA, RIKEN full-length enriched library, clone:8430436A10 product:weakly similar to RAT CYTOCHROME P-450B TYPE E (FRAGMENT) [Rattus norvegicus], full insert sequence: [AK018458]
A_66_P119155	0,73	6,95	0,0039	Dusp3	Mus musculus dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related) (Dusp3), mRNA [NM_028207]
A_55_P2042612	0,73	4,79	0,0185	C1s1	Mus musculus complement component 1, s subcomponent 1 (C1s1), transcript variant 1, mRNA [NM_144938]
A_51_P443508	0,73	7,51	0,0029	Ppa1	Mus musculus pyrophosphatase (inorganic) 1 (Ppa1), mRNA [NM_026438]
A_55_P2092730	0,73	6,19	0,0065	Wdfy1	Mus musculus WD repeat and FYVE domain containing 1 (Wdfy1), transcript variant 1, mRNA [NM_00111279]
A_55_P1967617	0,73	3,69	0,0474	Med16	Mus musculus mediator complex subunit 16 (Med16), transcript variant 1, mRNA [NM_198107]
A_51_P375201	0,73	4,73	0,0193	Plk3	Mus musculus polo-like kinase 3 (Plk3), mRNA [NM_013807]
A_55_P2036180	0,73	3,91	0,0384	Mcf2l	Mus musculus mcf.2 transforming sequence-like (Mcf2l), transcript variant 1, mRNA [NM_178076]
A_51_P458852	0,73	3,86	0,0403	Ina	internexin neuronal intermediate filament protein, alpha [Source:MGI Symbol;Acc:MGI:96568] [ENSMUST00000037636]
A_51_P219789	0,73	6,39	0,0057	H2-Q2	Mus musculus histocompatibility 2, Q region locus 2 (H2-Q2), mRNA [NM_010392]
A_55_P2034705	0,73	7,06	0,0037	Nmi	Mus musculus N-myc (and STAT) interactor (Nmi), transcript variant 1, mRNA [NM_001141949]
A_51_P272553	0,73	5,02	0,0152	Bhlhe40	Mus musculus basic helix-loop-helix family, member e40 (Bhlhe40), mRNA [NM_011498]
A_55_P1955717	0,73	3,84	0,0408	Hccs	Mus musculus holocytochrome c synthetase (Hccs), mRNA [NM_008222]
A_55_P2173664	0,72	4,26	0,0289	Gm626	PREDICTED: Mus musculus predicted gene 626 (Gm626), mRNA [XM_006519762]
A_55_P2099890	0,72	3,90	0,0387	Atxn7	Mus musculus ataxin 7 (Atxn7), mRNA [NM_139227]

A_55_P2019601	0,72	3,69	0,0471	Csprs	Mus musculus component of Sp100-rs (Csprs), mRNA [NM_033616]
A_52_P650855	0,72	4,95	0,0162	Myo1d	Mus musculus myosin ID (Myo1d), mRNA [NM_177390]
A_55_P1975110	0,72	7,86	0,0024	Pnpt1	Mus musculus polyribonucleotide nucleotidyltransferase 1 (Pnpt1), mRNA [NM_027869]
A_66_P116373	0,72	5,82	0,0085	Pwyp2b	Mus musculus PWWP domain containing 2B (Pwyp2b), transcript variant 1, mRNA [NM_001098636]
A_55_P2146708	0,72	4,01	0,0355	Zcchc9	Mus musculus zinc finger, CCHC domain containing 9 (Zcchc9), mRNA [NM_145453]
A_55_P2103101	0,72	5,14	0,0140	Snx9	Mus musculus sorting nexin 9 (Snx9), mRNA [NM_025664]
A_55_P1978424	0,72	5,77	0,0087	Bcl2a1d	Mus musculus B cell leukemia/lymphoma 2 related protein A1d (Bcl2a1d), mRNA [NM_007536]
A_55_P2151609	0,72	4,41	0,0256	Sorl1	Mus musculus sortilin-related receptor, LDLR class A repeats-containing (Sorl1), mRNA [NM_011436]
A_55_P2006754	0,72	8,07	0,0022	Mfsd12	major facilitator superfamily domain containing 12 [Source:MGI Symbol;Acc:MGI:3604804] [ENSMUST00000044844]
A_51_P415688	0,72	5,86	0,0082	Gng12	Mus musculus guanine nucleotide binding protein (G protein), gamma 12 (Gng12), transcript variant 2, mRNA [NM_025278]
A_55_P2102365	0,72	3,98	0,0363	Spag7	Mus musculus sperm associated antigen 7 (Spag7), transcript variant 1, mRNA [NM_172561]
A_55_P2100620	0,72	5,49	0,0106	Gm12216	Mus musculus predicted gene 12216 (Gm12216), long non-coding RNA [NR_033332]
A_51_P177194	0,72	4,08	0,0335	Rdh19	Mus musculus retinol dehydrogenase 19 (Rdh19), mRNA [NM_147222]
A_55_P2097474	0,72	4,20	0,0302	Creb5	Mus musculus cAMP responsive element binding protein 5 (Creb5), mRNA [NM_172728]
A_51_P146753	0,72	4,25	0,0292	Csf2rb2	Mus musculus colony stimulating factor 2 receptor, beta 2, low-affinity (granulocyte-macrophage) (Csf2rb2), transcript variant 1, mRNA [NM_007781]
A_55_P2090142	0,72	4,27	0,0285	Kcna7	Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 7 (Kcna7), mRNA [NM_010596]
A_55_P1987499	0,72	4,85	0,0176	Pttg1	Mus musculus pituitary tumor-transforming gene 1 (Pttg1), transcript variant 2, mRNA [NM_013917]
A_51_P241861	0,72	5,06	0,0148	Tcirg1	Mus musculus T cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3 (Tcirg1), transcript variant 1, mRNA [NM_016921]
A_51_P481159	0,72	4,74	0,0192	Cbr3	Mus musculus carbonyl reductase 3 (Cbr3), mRNA [NM_173047]
A_51_P127681	0,72	5,57	0,0101	Clic4	Mus musculus chloride intracellular channel 4 (mitochondrial) (Clic4), mRNA [NM_013885]
A_51_P366061	0,72	6,17	0,0066	Fscn1	Mus musculus fascin homolog 1, actin bundling protein (Strongylocentrotus purpuratus) (Fscn1), mRNA [NM_007984]
A_51_P502456	0,72	4,99	0,0156	H2-K2	Mus musculus histocompatibility 2, K region locus 2 (H2-K2), non-coding RNA [NR_004446]
A_52_P46085	0,71	4,58	0,0219	Mvp	Mus musculus major vault protein (Mvp), mRNA [NM_080638]
A_52_P377576	0,71	4,09	0,0333	Ap1s3	Mus musculus adaptor-related protein complex AP-1, sigma 3, mRNA (cDNA clone MGC:51390 IMAGE:3154405), complete cds. [BC054111]
A_52_P215106	0,71	3,96	0,0368	Pik3r6	Mus musculus phosphoinositide-3-kinase, regulatory subunit 6 (Pik3r6), transcript variant 2, mRNA [NM_001004435]
A_55_P1963868	0,71	7,85	0,0024	Plekho2	Mus musculus pleckstrin homology domain containing, family O member 2 (Plekho2), mRNA [NM_153119]
A_55_P2028159	0,71	5,67	0,0094	3110043021 Rik	Mus musculus RIKEN cDNA 3110043021 gene (3110043021Rik), mRNA [NM_001081343]
A_55_P2068892	0,71	4,33	0,0273	Il6ra	Mus musculus interleukin 6 receptor, alpha (Il6ra), mRNA [NM_010559]
A_55_P2066792	0,71	3,67	0,0479	Sp110	Mus musculus Sp110 nuclear body protein (Sp110), transcript variant 1, mRNA [NM_175397]
A_55_P2152566	0,71	6,10	0,0069	Sp110	Mus musculus Sp110 nuclear body protein (Sp110), transcript variant 1, mRNA [NM_175397]
A_51_P490305	0,71	5,94	0,0078	Ifi30	Mus musculus interferon gamma inducible protein 30 (Ifi30), mRNA [NM_023065]
A_51_P312121	0,71	4,49	0,0239	Xdh	Mus musculus xanthine dehydrogenase (Xdh), mRNA [NM_011723]
A_55_P2095854	0,71	3,85	0,0407	Rab3c	Mus musculus RAB3C, member RAS oncogene family (Rab3c), mRNA [NM_023852]
A_55_P1964509	0,71	4,26	0,0287	Lcn12	Mus musculus lipocalin 12 (Lcn12), mRNA [NM_029958]
A_52_P274452	0,71	4,83	0,0179	Atf7	Mus musculus activating transcription factor 7 (Atf7), mRNA [NM_146065]
A_55_P2061492	0,71	4,34	0,0269	Pnlcd1	Mus musculus 2 cells egg cDNA, RIKEN full-length enriched library, clone:B020003A13 product:weakly similar to Hypothetical protein FLJ35820 (deadenylation nuclease) [Homo sapiens], full insert sequence. [AK139523]
A_52_P681310	0,70	3,79	0,0430	Plaur	Mus musculus plasminogen activator, urokinase receptor (Plaur), mRNA [NM_011113]
A_66_P111660	0,70	6,66	0,0048	Mt1	Mus musculus metallothionein 1 (Mt1), mRNA [NM_013602]
A_51_P259118	0,70	4,31	0,0275	Klhl1	Mus musculus kelch-like 1 (Klhl1), mRNA [NM_053105]
A_55_P1964364	0,70	3,69	0,0474	Kctd14	Mus musculus potassium channel tetramerisation domain containing 14 (Kctd14), transcript variant 2, mRNA [NM_001012434]
A_55_P2065829	0,70	4,43	0,0250	9230110C19 Rik	Mus musculus RIKEN cDNA 9230110C19 gene (9230110C19Rik), mRNA [NM_199017]
A_55_P1958597	0,70	6,95	0,0039	Slc27a3	Mus musculus solute carrier family 27 (fatty acid transporter), member 3 (Slc27a3), mRNA [NM_011988]
A_55_P2141013	0,70	4,26	0,0288	Siglech	Mus musculus sialic acid binding Ig-like lectin H (Siglech), mRNA [NM_178706]
A_55_P2178201	0,70	4,79	0,0184	Wdr45b	Mus musculus WD repeat domain 45B (Wdr45b), mRNA [NM_025793]
A_55_P2152009	0,70	5,95	0,0078	Tesc	Mus musculus tescalcin (Tesc), mRNA [NM_021344]



A_55_P2091861	0,70	4,89	0,0171	Hipk2	Mus musculus homeodomain interacting protein kinase 2 (Hipk2), transcript variant 1, mRNA [NM_001136065]
A_51_P234692	0,70	4,62	0,0214	Neat1	Mus musculus nuclear paraspeckle assembly transcript 1 (non-protein coding) (Neat1), long non-coding RNA [NR_003513]
A_51_P464387	0,70	4,48	0,0240	Hspb8	Mus musculus heat shock protein 8 (Hspb8), mRNA [NM_030704]
A_55_P1997300	0,70	3,83	0,0411	Mtfr2	Mus musculus mitochondrial fission regulator 2 (Mtfr2), mRNA [NM_027930]
A_52_P532227	0,70	4,34	0,0269	S1pr1	Mus musculus sphingosine-1-phosphate receptor 1 (S1pr1), mRNA [NM_007901]
A_55_P2103115	0,70	4,04	0,0346	Tor1aip2	Mus musculus torsin A interacting protein 2 (Tor1aip2), transcript variant 5, mRNA [NM_172843]
A_55_P2026535	0,69	4,14	0,0319	Erc2	Mus musculus ELKS/RAB6-interacting/CAST family member 2 (Erc2), mRNA [NM_177814]
A_55_P2191002	0,69	4,24	0,0294	2610027K06 Rik	Mus musculus RIKEN cDNA 2610027K06 gene (2610027K06Rik), long non-coding RNA [NR_077059]
A_55_P1956827	0,69	7,47	0,0029	Ogfr	Mus musculus opioid growth factor receptor (Ogfr), mRNA [NM_031373]
A_55_P1971963	0,69	3,96	0,0368	Tmem176b	Mus musculus transmembrane protein 176B (Tmem176b), transcript variant 1, mRNA [NM_023056]
A_51_P142153	0,69	5,81	0,0085	Filip1l	Mus musculus filamin A interacting protein 1-like (Filip1l), transcript variant 1, mRNA [NM_001040397]
A_55_P2169839	0,69	6,05	0,0073	Rufy3	Mus musculus RUN and FYVE domain containing 3 (Rufy3), transcript variant 1, mRNA [NM_001289774]
A_51_P272147	0,69	5,49	0,0106	Emc9	Mus musculus ER membrane protein complex subunit 9 (Emc9), mRNA [NM_033146]
A_55_P1968863	0,69	3,72	0,0460	Synpo2l	Mus musculus synaptopodin 2-like (Synpo2l), mRNA [NM_175132]
A_55_P2126557	0,69	6,48	0,0054	Gm5858	PREDICTED: Mus musculus predicted gene 5858 (Gm5858), mRNA [XM_006502567]
A_55_P2046253	0,69	4,02	0,0354	Tmem239	Mus musculus transmembrane 239 (Tmem239), mRNA [NM_025753]
A_55_P2213828	0,69	4,17	0,0310	4933412E12 Rik	Mus musculus RIKEN cDNA 4933412E12 gene (4933412E12Rik), transcript variant 1, long non-coding RNA [NR_038025]
A_55_P2014229	0,69	3,98	0,0363	Sema4a	Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A (Sema4a), transcript variant 1, mRNA [NM_013658]
A_51_P458866	0,68	6,02	0,0074	F11r	Mus musculus F11 receptor (F11r), mRNA [NM_172647]
A_51_P186856	0,68	3,65	0,0491	Krt5	Mus musculus keratin 5 (Krt5), mRNA [NM_027011]
A_55_P2258832	0,68	4,04	0,0346	5230400M03 Rik	Mus musculus adult male xiphoid cartilage cDNA, RIKEN full-length enriched library, clone:5230400M03 product:unclassifiable, full insert sequence. [AK030345]
A_55_P1982737	0,68	3,85	0,0406	Dnajc5	Mus musculus Dnaj (Hsp40) homolog, subfamily C, member 5 (Dnajc5), transcript variant 1, mRNA [NM_001271585]
A_51_P210395	0,68	4,72	0,0194	GlrX	Mus musculus glutaredoxin (GlrX), mRNA [NM_053108]
A_51_P161636	0,68	5,67	0,0094	Kng2	Mus musculus kininogen 2 (Kng2), transcript variant 1, mRNA [NM_201375]
A_55_P2061386	0,68	5,32	0,0121	Chd3	Mus musculus chromodomain helicase DNA binding protein 3 (Chd3), mRNA [NM_146019]
A_55_P1998578	0,68	4,87	0,0174	Ifitm2	Mus musculus interferon induced transmembrane protein 2 (Ifitm2), mRNA [NM_030694]
A_51_P419389	0,68	3,71	0,0463	Bmpr2	Mus musculus bone morphogenetic protein receptor, type II (serine/threonine kinase) (Bmpr2), mRNA [NM_007561]
A_55_P2423586	0,68	4,10	0,0332	Eya1	Mus musculus eyes absent 1 homolog (Drosophila) (Eya1), transcript variant 1, mRNA [NM_010164]
A_55_P2004007	0,68	4,22	0,0298	LOC102639543	PREDICTED: Mus musculus pyrin domain-containing protein 3-like (LOC102639543), transcript variant X1, mRNA [XM_006497078]
A_55_P1970710	0,68	4,09	0,0335	Mllt6	Mus musculus myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6 (Mllt6), mRNA [NM_139311]
A_55_P2168426	0,68	4,03	0,0347	Pced1b	Mus musculus PC-esterase domain containing 1B (Pced1b), mRNA [NM_172293]
A_55_P2143517	0,68	3,91	0,0385	Fstl1	Mus musculus follistatin-like 1 (Fstl1), mRNA [NM_008047]
A_51_P441426	0,68	4,80	0,0184	Pf4	Mus musculus platelet factor 4 (Pf4), mRNA [NM_019932]
A_55_P2002968	0,68	4,92	0,0167	Coro2a	Mus musculus coronin, actin binding protein 2A (Coro2a), transcript variant 1, mRNA [NM_178893]
A_55_P1983588	0,68	5,85	0,0083	Pmepa1	Mus musculus prostate transmembrane protein, androgen induced 1 (Pmepa1), mRNA [NM_022995]
A_55_P2060444	0,68	3,68	0,0476	Apopt1	Mus musculus apoptogenic, mitochondrial 1 (Apopt1), transcript variant 2, mRNA [NM_026511]
A_52_P1029978	0,67	3,87	0,0401	Lasp1	Mus musculus LIM and SH3 protein 1 (Lasp1), mRNA [NM_010688]
A_55_P1996365	0,67	3,81	0,0421	Ifna14	Mus musculus interferon alpha 14 (Ifna14), mRNA [NM_206975]
A_55_P2045549	0,67	6,62	0,0048	Dpy19l1	Mus musculus dpy-19-like 1 (C. elegans) (Dpy19l1), mRNA [NM_172920]
A_55_P1969745	0,67	4,06	0,0340	Pitpnm1	Mus musculus phosphatidylinositol transfer protein, membrane-associated 1 (Pitpnm1), transcript variant 1, mRNA [NM_008851]
A_51_P282667	0,67	7,65	0,0026	Hexa	Mus musculus hexosaminidase A (Hexa), mRNA [NM_010421]
A_51_P252677	0,67	4,80	0,0183	1110007C09 Rik	Mus musculus RIKEN cDNA 1110007C09 gene (1110007C09Rik), mRNA [NM_026738]
A_55_P2345853	0,67	3,72	0,0461	3830612M24	Mus musculus 18 days pregnant adult female placenta and extra embryonic tissue cDNA, RIKEN full-length enriched library, clone:3830612M24 product:unclassifiable, full insert sequence. [AK028406]
A_55_P1999364	0,67	5,13	0,0141	Krt85	Mus musculus keratin 85 (Krt85), mRNA [NM_016879]

A_55_P2182222	0,67	3,86	0,0403	Rab3c	Mus musculus RAB3C, member RAS oncogene family (Rab3c), mRNA [NM_023852]
A_52_P77245	0,67	4,64	0,0209	Snx8	Mus musculus sorting nexin 8 (Snx8), mRNA [NM_172277]
A_55_P2108784	0,67	5,87	0,0082	Arhgap22	Mus musculus Rho GTPase activating protein 22 (Arhgap22), mRNA [NM_153800]
A_51_P412461	0,67	3,94	0,0374	Antxrl	Mus musculus anthrax toxin receptor-like (Antxrl), mRNA [NM_172808]
A_55_P1991964	0,67	4,18	0,0308	Iqsec2	Mus musculus IQ motif and Sec7 domain 2 (Iqsec2), transcript variant 1, mRNA [NM_001114664]
A_55_P2056674	0,67	4,93	0,0166	Lrrk1	Mus musculus leucine-rich repeat kinase 1 (Lrrk1), mRNA [NM_146191]
A_55_P2110743	0,67	4,07	0,0339	Mettl7a2	Mus musculus methyltransferase like 7A2 (Mettl7a2), mRNA [NM_199477]
A_52_P151853	0,67	4,84	0,0178	Tpd52	Mus musculus tumor protein D52 (Tpd52), transcript variant 2, mRNA [NM_001025262]
A_55_P1977917	0,67	6,16	0,0066	Cln3	Mus musculus ceroid lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeier-Vogt disease) (Cln3), transcript variant 1, mRNA [NM_001146311]
A_55_P2068607	0,67	6,24	0,0064	Rnf19b	Mus musculus ring finger protein 19B (Rnf19b), mRNA [NM_029219]
A_51_P443514	0,67	4,98	0,0158	1700001K19 Rik	Mus musculus RIKEN cDNA 1700001K19 gene (1700001K19Rik), mRNA [NM_025488]
A_55_P2015022	0,66	4,69	0,0198	Gm10856	Mus musculus ES cells cDNA, RIKEN full-length enriched library, clone:C330035010 product:hypothetical protein, full insert sequence. [AK141242]
A_55_P2054728	0,66	3,65	0,0491	Ldlrad3	Mus musculus low density lipoprotein receptor class A domain containing 3 (Ldlrad3), transcript variant 1, mRNA [NM_178886]
A_55_P1956063	0,66	3,72	0,0458	Pbld1	Mus musculus phenazine biosynthesis-like protein domain containing 1 (Pbld1), mRNA [NM_026701]
A_55_P1961690	0,66	4,85	0,0176	Tctex1d2	Mus musculus Tctex1 domain containing 2 (Tctex1d2), mRNA [NM_025329]
A_52_P375312	0,66	3,86	0,0402	Amica1	Mus musculus adhesion molecule, interacts with CXADR antigen 1 (Amica1), mRNA [NM_001005421]
A_55_P2024600	0,66	3,69	0,0474	Zfp658	Mus musculus zinc finger protein 658 (Zfp658), mRNA [NM_001008549]
A_55_P2051322	0,66	6,20	0,0065	Efh2	Mus musculus EF hand domain containing 2 (Efh2), mRNA [NM_025994]
A_55_P2172440	0,66	3,65	0,0489	Scarf2	Mus musculus scavenger receptor class F, member 2 (Scarf2), mRNA [NM_153790]
A_51_P140347	0,66	4,75	0,0191	Slc4a9	Mus musculus solute carrier family 4, sodium bicarbonate cotransporter, member 9 (Slc4a9), transcript variant 3, mRNA [NM_172830]
A_55_P2079430	0,66	5,20	0,0135	Spred1	Mus musculus sprouty protein with EVH-1 domain 1, related sequence (Spred1), transcript variant 1, mRNA [NM_033524]
A_55_P2147886	0,65	4,17	0,0310	Fam118a	Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230014M12 product:hypothetical protein, full insert sequence. [AK082151]
A_51_P473229	0,65	5,37	0,0116	Zbtb7b	Mus musculus zinc finger and BTB domain containing 7B (Zbtb7b), mRNA [NM_009565]
A_55_P1968178	0,65	4,27	0,0285	Smagp	Mus musculus small cell adhesion glycoprotein (Smagp), transcript variant 1, mRNA [NM_174992]
A_55_P2044364	0,65	4,05	0,0343	Mms22l	Mus musculus MMS22-like, DNA repair protein (Mms22l), mRNA [NM_199467]
A_55_P1968789	0,65	4,76	0,0189	Rasa3	Mus musculus RAS p21 protein activator 3 (Rasa3), mRNA [NM_009025]
A_55_P2006703	0,65	5,08	0,0147	Bmp1	Mus musculus bone morphogenetic protein 1 (Bmp1), transcript variant 1, mRNA [NM_009755]
A_55_P2053398	0,65	4,25	0,0292	Pirb	paired Ig-like receptor B [Source:MGI Symbol;Acc:MGI:894311] [ENSMUST00000078451]
A_55_P2230913	0,65	4,78	0,0185	Etv6	Mus musculus ets variant gene 6 (TEL oncogene) (Etv6), mRNA [NM_007961]
A_51_P225592	0,65	5,04	0,0150	Tpm4	Mus musculus tropomyosin 4 (Tpm4), mRNA [NM_001001491]
A_55_P1995045	0,65	5,32	0,0121	Zc3hav1	Mus musculus zinc finger CCCH type, antiviral 1 (Zc3hav1), transcript variant 2, mRNA [NM_028864]
A_55_P2298029	0,65	5,13	0,0141	Whsc11l	Mus musculus Wolf-Hirschhorn syndrome candidate 1-like 1 (human) (Whsc11l), transcript variant 2, mRNA [NM_001081269]
A_55_P2011887	0,65	5,16	0,0139	Kif13a	Mus musculus kinesin family member 13A (Kif13a), mRNA [NM_010617]
A_55_P2038767	0,64	4,66	0,0204	Fam49a	Mus musculus family with sequence similarity 49, member A (Fam49a), transcript variant 1, mRNA [NM_029758]
A_55_P1966372	0,64	3,66	0,0486	Srek1	Mus musculus splicing regulatory glutamine/lysine-rich protein 1 (Srek1), mRNA [NM_172592]
A_51_P293982	0,64	5,99	0,0076	Plekho2	Mus musculus pleckstrin homology domain containing, family O member 2 (Plekho2), mRNA [NM_153119]
A_51_P518893	0,64	4,34	0,0269	Ccin	Mus musculus calicin (Ccin), mRNA [NM_001002787]
A_55_P2129691	0,64	3,77	0,0441	AB124611	Mus musculus cDNA sequence AB124611 (AB124611), transcript variant 1, mRNA [NM_001198794]
A_55_P2098076	0,64	3,69	0,0471	Trim25	Mus musculus tripartite motif-containing 25, mRNA (cDNA clone MGC:30340 IMAGE:4022161), complete cds. [BC034276]
A_51_P281333	0,64	4,98	0,0159	St3gal6	Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 6 (St3gal6), mRNA [NM_018784]
A_55_P1973779	0,64	3,99	0,0362	Pde4c	Mus musculus phosphodiesterase 4C, cAMP specific (Pde4c), mRNA [NM_201607]
A_55_P1999601	0,64	3,93	0,0380	Gm10631	Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:6530432013 product:hypothetical protein, full insert sequence. [AK135158]
A_55_P2146136	0,64	3,83	0,0414	Gla	Mus musculus galactosidase, alpha (Gla), mRNA [NM_013463]
A_55_P2086811	0,64	4,73	0,0193	Sp140	Mus musculus Sp140 nuclear body protein (Sp140), mRNA [NM_001013817]
A_52_P393314	0,64	3,89	0,0391	P2rx7	Mus musculus purinergic receptor P2X, ligand-gated ion channel, 7 (P2rx7), transcript variant 1, mRNA [NM_011027]

A_55_P1959174	0,64	3,85	0,0407	Pmepa1	Mus musculus prostate transmembrane protein, androgen induced 1 (Pmepa1), mRNA [NM_022995]
A_55_P2189893	0,64	4,63	0,0210	A630073K07 Rik	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630073K07 product:unclassifiable, full insert sequence. [AK042233]
A_55_P2042870	0,64	4,04	0,0345	Aoc2	Mus musculus amine oxidase, copper containing 2 (retina-specific) (Aoc2), mRNA [NM_178932]
A_52_P483280	0,64	4,59	0,0218	Lamp2	Mus musculus lysosomal-associated membrane protein 2 (Lamp2), transcript variant 2, mRNA [NM_010685]
A_55_P1957850	0,64	4,43	0,0250	Snx9	Mus musculus sorting nexin 9 (Snx9), mRNA [NM_025664]
A_55_P2134566	0,64	3,64	0,0496	Fam71e1	PREDICTED: Mus musculus family with sequence similarity 71, member E1 (Fam71e1), transcript variant X3, mRNA [XM_006541244]
A_55_P2156785	0,64	4,03	0,0349	Ppfia3	Mus musculus protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3 (Ppfia3), mRNA [NM_029741]
A_55_P2153990	0,63	3,68	0,0476	Tldc2	Mus musculus TBC/LysM associated domain containing 2 (Tldc2), mRNA [NM_001177439]
A_51_P279163	0,63	4,42	0,0252	Plcg2	Mus musculus phospholipase C, gamma 2 (Plcg2), mRNA [NM_172285]
A_52_P635338	0,63	6,66	0,0048	Fes	Mus musculus feline sarcoma oncogene (Fes), mRNA [NM_010194]
A_55_P2083121	0,63	5,04	0,0150	Vill	Mus musculus villin-like (Vill), transcript variant 1, mRNA [NM_001164567]
A_51_P259009	0,63	5,08	0,0147	Cacnb3	Mus musculus calcium channel, voltage-dependent, beta 3 subunit (Cacnb3), transcript variant 1, mRNA [NM_007581]
A_51_P298843	0,63	3,65	0,0489	Pcbd2	Mus musculus pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2 (Pcbd2), mRNA [NM_028281]
A_55_P2029191	0,63	4,27	0,0285	Pde4a	Mus musculus phosphodiesterase 4A, cAMP specific (Pde4a), transcript variant 5, mRNA [NM_183408]
A_55_P2183010	0,63	4,55	0,0227	P2rx7	Mus musculus purinergic receptor P2X, ligand-gated ion channel, 7 (P2rx7), transcript variant 4, mRNA [NM_001038887]
A_51_P207591	0,63	5,03	0,0151	Anxa8	Mus musculus annexin A8 (Anxa8), transcript variant 1, mRNA [NM_013473]
A_55_P2161775	0,63	5,15	0,0139	Prr3	Mus musculus proline-rich polypeptide 3 (Prr3), transcript variant 1, mRNA [NM_145487]
A_55_P2039463	0,63	4,48	0,0240	Timmdc1	Mus musculus translocase of inner mitochondrial membrane domain containing 1 (Timmdc1), mRNA [NM_024273]
A_55_P2006008	0,62	4,23	0,0296	Serpib1a	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 1a (Serpib1a), mRNA [NM_025429]
A_52_P42834	0,62	4,53	0,0232	Usp25	Mus musculus ubiquitin specific peptidase 25 (Usp25), mRNA [NM_013918]
A_52_P86693	0,62	4,86	0,0176	Ifi27	Mus musculus interferon, alpha-inducible protein 27 (Ifi27), transcript variant 1, mRNA [NM_026790]
A_55_P2083411	0,62	4,93	0,0166	Cyp4f18	Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 18 (Cyp4f18), mRNA [NM_024444]
A_55_P2109485	0,62	3,97	0,0365	Milr1	Mus musculus mast cell immunoglobulin like receptor 1 (Milr1), transcript variant 1, mRNA [NM_001033435]
A_51_P176377	0,62	6,15	0,0067	Usp25	Mus musculus ubiquitin specific peptidase 25 (Usp25), mRNA [NM_013918]
A_51_P327796	0,62	4,86	0,0176	Itgb5	Mus musculus integrin beta 5 (Itgb5), transcript variant 2, mRNA [NM_010580]
A_51_P425048	0,62	6,58	0,0050	H2-Q2	Mus musculus histocompatibility 2, Q region locus 2 (H2-Q2), mRNA [NM_010392]
A_55_P2150299	0,62	4,63	0,0210	E030030106 Rik	Mus musculus RIKEN cDNA E030030106 gene (E030030106Rik), transcript variant 2, mRNA [NM_001254745]
A_55_P2063573	0,62	3,99	0,0361	Gm10473	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930558G23 product:hypothetical protein, full insert sequence. [AK133037]
A_55_P2034740	0,62	3,76	0,0444	Exosc2	Mus musculus exosome component 2 (Exosc2), mRNA [NM_144886]
A_55_P2179791	0,62	3,92	0,0382	6720473M11 Rik	Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720473M11 product:hypothetical Retroviral GAG p10 protein/Retroviral matrix protein containing protein, full insert sequence. [AK020158]
A_55_P2162698	0,62	4,34	0,0269	Prpf40b	Mus musculus PRP40 pre-mRNA processing factor 40 homolog B (yeast) (Prpf40b), mRNA [NM_018786]
A_55_P1996171	0,61	6,77	0,0045	Pcgf5	Mus musculus polycomb group ring finger 5 (Pcgf5), mRNA [NM_029508]
A_55_P2181386	0,61	5,10	0,0145	Adm2	Mus musculus adrenomedullin 2 (Adm2), mRNA [NM_182928]
A_55_P1973399	0,61	3,68	0,0476	I730030J21R ik	Mus musculus RIKEN cDNA I730030J21 gene (I730030J21Rik), transcript variant 1, long non-coding RNA [NR_045781]
A_55_P1987261	0,61	4,36	0,0266	Fam214b	Mus musculus family with sequence similarity 214, member B (Fam214b), transcript variant 1, mRNA [NM_001253353]
A_55_P1976743	0,61	4,25	0,0292	Sp110	PREDICTED: Mus musculus Sp110 nuclear body protein (Sp110), transcript variant X6, mRNA [XM_006529071]
A_55_P2010957	0,61	4,03	0,0349	Gm4971	Mus musculus 2 cells egg cDNA, RIKEN full-length enriched library, clone:B020007018 product:hypothetical Forkhead-associated (FHA)/Forkhead-associated (FHA) domain profile/SMAD/FHA containing protein, full insert sequence. [AK139645]
A_51_P509971	0,61	6,85	0,0042	Plekho1	Mus musculus pleckstrin homology domain containing, family O member 1 (Plekho1), mRNA [NM_023320]
A_55_P2308488	0,61	4,02	0,0351	Tiam1	Mus musculus T cell lymphoma invasion and metastasis 1 (Tiam1), transcript variant 1, mRNA [NM_009384]
A_55_P2039694	0,61	3,95	0,0373	Clca1	chloride channel calcium activated 1 [Source:MGI Symbol;Acc:MGI:1316732] [ENSMUST0000029932]
A_51_P384629	0,61	5,33	0,0120	Ctsd	Mus musculus cathepsin D (Ctsd), mRNA [NM_009983]
A_55_P2159740	0,61	4,17	0,0309	Mfsd2b	Mus musculus major facilitator superfamily domain containing 2B (Mfsd2b), mRNA [NM_001033488]

A_51_P507801	0,61	4,24	0,0293	F13a1	Mus musculus coagulation factor XIII, A1 subunit (F13a1), transcript variant 1, mRNA [NM_028784]
A_55_P2033557	0,61	4,23	0,0294	AB041803	Mus musculus brain cDNA, clone MNCb-1768. [AB041803]
A_51_P367285	0,61	4,00	0,0359	Rnf135	Mus musculus ring finger protein 135 (Rnf135), mRNA [NM_028019]
A_55_P2157838	0,61	3,82	0,0416	LOC102633269	PREDICTED: Mus musculus PCNA-associated factor-like (LOC102633269), partial mRNA [XM_006508438]
A_55_P2007713	0,61	4,14	0,0317	Tspan4	Mus musculus tetraspanin 4 (Tspan4), transcript variant 1, mRNA [NM_053082]
A_51_P372172	0,60	5,80	0,0086	Plod3	Mus musculus procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3 (Plod3), mRNA [NM_011962]
A_51_P345663	0,60	5,24	0,0129	Rrbp1	Mus musculus ribosome binding protein 1 (Rrbp1), transcript variant 1, mRNA [NM_024281]
A_55_P1968606	0,60	4,10	0,0330	Ppm1k	Mus musculus protein phosphatase 1K (PP2C domain containing) (Ppm1k), mRNA [NM_175523]
A_52_P632742	0,60	4,76	0,0189	Shisa5	Mus musculus shisa homolog 5 (Xenopus laevis) (Shisa5), transcript variant 1, mRNA [NM_025858]
A_55_P2029528	0,60	4,30	0,0279	H2-K1	Mus musculus MHC class I heavy chain maturation peptide H-2K(d) mRNA, partial cds. [AY496688]
A_55_P1995012	0,60	4,71	0,0195	Plekhm2	Mus musculus pleckstrin homology domain containing, family M (with RUN domain) member 2 (Plekhm2), mRNA [NM_001033150]
A_51_P451516	0,60	4,13	0,0321	Arhgef25	Mus musculus Rho guanine nucleotide exchange factor (GEF) 25 (Arhgef25), transcript variant 1, mRNA [NM_028027]
A_55_P2205638	0,60	4,76	0,0188	D17H6S56E-5	mt75h08.y1 Soares mouse lymph node NbMLN Mus musculus cDNA clone IMAGE:635775 5'. [AI509287]
A_55_P2097808	0,60	4,28	0,0283	P4ha1	Mus musculus procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha 1 polypeptide (P4ha1), mRNA [NM_011030]
A_55_P2006525	0,60	3,70	0,0471	Adamtsl4	Mus musculus ADAMTS-like 4 (Adamtsl4), mRNA [NM_144899]
A_55_P1986296	0,60	5,00	0,0156	Tagln2	Mus musculus transgelin 2 (Tagln2), mRNA [NM_178598]
A_52_P263518	0,60	5,15	0,0140	Gng2	Mus musculus guanine nucleotide binding protein (G protein), gamma 2 (Gng2), transcript variant 1, mRNA [NM_010315]
A_55_P1994309	0,60	4,54	0,0229	Ptgir	Mus musculus prostaglandin I receptor (IP) (Ptgir), mRNA [NM_008967]
A_55_P2139763	0,60	4,76	0,0188	Trim56	Mus musculus tripartite motif-containing 56 (Trim56), mRNA [NM_201373]
A_55_P1966982	0,60	4,62	0,0213	Gsr	Mus musculus glutathione reductase (Gsr), mRNA [NM_010344]
A_55_P2030077	0,60	3,90	0,0387	Ifnab	Mus musculus interferon alpha B (Ifnab), mRNA [NM_008336]
A_55_P1966585	0,60	4,46	0,0244	Bpifc	PREDICTED: Mus musculus BPI fold containing family C (Bpifc), transcript variant X1, mRNA [XM_006513696]
A_52_P555723	0,60	5,40	0,0114	Ywhag	Mus musculus tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide (Ywhag), mRNA [NM_018871]
A_55_P2055763	0,60	4,18	0,0307	Gm5878	Mus musculus predicted gene 5878 (Gm5878), mRNA [NM_001034902]
A_55_P2074924	0,59	3,86	0,0402	Ppp1r13l	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 13 like (Ppp1r13l), mRNA [NM_001010836]
A_55_P1983152	0,59	4,43	0,0250	Gramd4	Mus musculus GRAM domain containing 4 (Gramd4), transcript variant 2, mRNA [NM_001205353]
A_55_P1998957	0,59	4,08	0,0335	Oas1c	Mus musculus 2'-5' oligoadenylate synthetase 1C (Oas1c), mRNA [NM_033541]
A_51_P479914	0,59	5,76	0,0087	Pik3cb	Mus musculus phosphatidylinositol 3-kinase, catalytic, beta polypeptide (Pik3cb), mRNA [NM_029094]
A_51_P204740	0,59	4,22	0,0298	Cd34	Mus musculus CD34 antigen (Cd34), transcript variant 2, mRNA [NM_133654]
A_55_P2202043	0,59	5,78	0,0086	C430045118Rik	Mus musculus 7 days embryo whole body cDNA, RIKEN full-length enriched library, clone:C430045118 product:unclassifiable, full insert sequence. [AK021252]
A_55_P2185573	0,59	4,87	0,0174	Rbms1	Mus musculus RNA binding motif, single stranded interacting protein 1 (Rbms1), transcript variant 3, mRNA [NM_020296]
A_52_P592909	0,59	5,15	0,0139	Dgat2	Mus musculus diacylglycerol O-acyltransferase 2 (Dgat2), mRNA [NM_026384]
A_55_P2025073	0,59	4,77	0,0188	Csf1r	Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA [NM_001037859]
A_51_P130757	0,59	4,72	0,0195	Acer3	Mus musculus alkaline ceramidase 3 (Acer3), mRNA [NM_025408]
A_55_P2006277	0,59	5,17	0,0138	Ogdh	Mus musculus oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide) (Ogdh), transcript variant 3, mRNA [NM_001252287]
A_51_P144264	0,59	4,48	0,0240	Klf2	Mus musculus Kruppel-like factor 2 (lung) (Klf2), mRNA [NM_008452]
A_55_P2063626	0,59	5,54	0,0102	Matk	Mus musculus megakaryocyte-associated tyrosine kinase (Matk), transcript variant 1, mRNA [NM_010768]
A_55_P2091858	0,58	3,92	0,0383	Hipk2	Mus musculus homeodomain interacting protein kinase 2 (Hipk2), transcript variant 1, mRNA [NM_001136065]
A_55_P1995173	0,58	5,29	0,0124	Odc1	Mus musculus ornithine decarboxylase, structural 1 (Odc1), mRNA [NM_013614]
A_55_P2169069	0,58	3,70	0,0469	Gm10405	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230099F01 product:hypothetical protein, full insert sequence. [AK138421]
A_55_P2066727	0,58	3,91	0,0385	Serpib6a	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 6a (Serpib6a), transcript variant 3, mRNA [NM_001164118]
A_55_P2064299	0,58	4,87	0,0175	Msrbl	Mus musculus adult male heart cDNA, RIKEN full-length enriched library, clone:1010001D24 product:selenoprotein R, full insert sequence. [AK003112]
A_55_P2096515	0,58	4,17	0,0310	Gm10706	Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A330033104 product:hypothetical protein, full insert sequence. [AK138480]
A_51_P101196	0,58	5,71	0,0091	Psme1	Mus musculus proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) (Psme1), mRNA [NM_011189]

A_51_P468599	0,58	5,13	0,0141	Smchd1	Mus musculus SMC hinge domain containing 1 (Smchd1), mRNA [NM_028887]
A_55_P2132697	0,58	5,51	0,0105	LOC102633858	PREDICTED: Mus musculus uncharacterized LOC102633858 (LOC102633858), ncRNA [XR_389816]
A_52_P638459	0,58	4,67	0,0203	Ccl5	Mus musculus chemokine (C-C motif) ligand 5 (Ccl5), mRNA [NM_013653]
A_55_P2150343	0,58	4,56	0,0224	Piezo1	Mus musculus piezo-type mechanosensitive ion channel component 1 (Piezo1), mRNA [NM_001037298]
A_55_P2038757	0,57	3,89	0,0392	Fblim1	Mus musculus filamin binding LIM protein 1 (Fblim1), transcript variant 2, mRNA [NM_133754]
A_55_P2083184	0,57	4,33	0,0273	Gm10142	Mus musculus predicted gene 10142 (Gm10142), mRNA [NM_001205035]
A_55_P2065732	0,57	3,82	0,0420	Medag	Mus musculus mesenteric estrogen dependent adipogenesis (Medag), mRNA [NM_027519]
A_66_P113487	0,57	5,67	0,0094	Pacsin2	Mus musculus protein kinase C and casein kinase substrate in neurons 2 (Pacsin2), transcript variant 1, mRNA [NM_011862]
A_51_P111612	0,57	3,74	0,0453	Arrdc4	Mus musculus arrestin domain containing 4 (Arrdc4), transcript variant 1, mRNA [NM_001042592]
A_51_P416419	0,57	4,99	0,0156	Calr	Mus musculus calreticulin (Calr), mRNA [NM_007591]
A_51_P332201	0,57	5,19	0,0136	Cst3	Mus musculus cystatin C (Cst3), mRNA [NM_009976]
A_55_P2246650	0,57	4,07	0,0338	9330159M07 Rik	Mus musculus RIKEN cDNA 9330159M07 gene (9330159M07Rik), transcript variant 1, long non-coding RNA [NR_037982]
A_55_P2023424	0,57	5,82	0,0085	Trip10	Mus musculus thyroid hormone receptor interactor 10 (Trip10), transcript variant 1, mRNA [NM_001242389]
A_55_P2041265	0,57	4,12	0,0325	Utp6	Mus musculus UTP6, small subunit (SSU) processome component, homolog (yeast) (Utp6), mRNA [NM_144826]
A_55_P1958007	0,57	5,04	0,0150	Ddx24	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 24 (Ddx24), transcript variant 1, mRNA [NM_001159502]
A_55_P2153067	0,57	4,13	0,0320	2610028H24 Rik	Mus musculus RIKEN cDNA 2610028H24 gene (2610028H24Rik), mRNA [NM_029816]
A_55_P1969746	0,57	3,86	0,0401	Pitpmn1	Mus musculus phosphatidylinositol transfer protein, membrane-associated 1 (Pitpmn1), transcript variant 1, mRNA [NM_008851]
A_55_P1991770	0,57	5,61	0,0097	Pdlim4	Mus musculus PDZ and LIM domain 4 (Pdlim4), mRNA [NM_019417]
A_55_P2043987	0,57	5,30	0,0123	Luzp1	Mus musculus leucine zipper protein 1 (Luzp1), mRNA [NM_024452]
A_55_P2029574	0,56	4,16	0,0312	Por	Mus musculus P450 (cytochrome) oxidoreductase (Por), mRNA [NM_008898]
A_55_P2096807	0,56	4,77	0,0188	Rbms1	Mus musculus RNA binding motif, single stranded interacting protein 1 (Rbms1), transcript variant 3, mRNA [NM_020296]
A_55_P2055819	0,56	5,55	0,0102	Adam15	Mus musculus a disintegrin and metallopeptidase domain 15 (metargidin) (Adam15), transcript variant 1, mRNA [NM_001037722]
A_55_P2076792	0,56	4,35	0,0269	Anxa6	Mus musculus annexin A6 (Anxa6), transcript variant 1, mRNA [NM_013472]
A_55_P2053266	0,56	5,05	0,0150	St6galnac6	Mus musculus ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6 (St6galnac6), transcript variant 6, mRNA [NM_001289549]
A_66_P115539	0,56	4,52	0,0232	Gm11240	Mus musculus predicted gene 11240 (Gm11240), transcript variant 2, long non-coding RNA [NR_046042]
A_52_P432580	0,56	4,49	0,0239	Arid5b	PREDICTED: Mus musculus AT rich interactive domain 5B (MRF1-like) (Arid5b), transcript variant X1, mRNA [XM_006514129]
A_51_P342669	0,56	5,59	0,0099	Pgam1	Mus musculus phosphoglycerate mutase 1 (Pgam1), mRNA [NM_023418]
A_55_P2108201	0,56	4,11	0,0327	Gnptab	Mus musculus N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits (Gnptab), mRNA [NM_001004164]
A_55_P2060445	0,56	3,92	0,0381	Apopt1	Mus musculus apoptogenic, mitochondrial 1 (Apopt1), transcript variant 2, mRNA [NM_026511]
A_55_P2131279	0,56	5,03	0,0152	Atp6v1a	Mus musculus ATPase, H+ transporting, lysosomal V1 subunit A (Atp6v1a), mRNA [NM_007508]
A_55_P2293434	0,56	3,66	0,0487	5830419E12 Rik	Mus musculus adult male thymus cDNA, RIKEN full-length enriched library, clone:5830419E12 product: hypothetical protein, full insert sequence. [AK134048]
A_55_P2058942	0,56	3,96	0,0369	Aldh3b1	Mus musculus aldehyde dehydrogenase 3 family, member B1 (Aldh3b1), mRNA [NM_026316]
A_65_P10351	0,56	4,61	0,0214	Atp2b1	Mus musculus ATPase, Ca++ transporting, plasma membrane 1 (Atp2b1), mRNA [NM_026482]
A_55_P2037235	0,56	4,77	0,0188	Sp110	Mus musculus Sp110 nuclear body protein (Sp110), transcript variant 1, mRNA [NM_175397]
A_51_P509679	0,56	4,12	0,0325	Igh-VJ558	immunoglobulin heavy constant alpha [Source:MGI Symbol;Acc:MGI:96444] [ENSIMUST00000178282]
A_55_P2090364	0,55	4,70	0,0197	Plcd4	phospholipase C, delta 4 [Source:MGI Symbol;Acc:MGI:107469] [ENSIMUST00000113749]
A_55_P2043367	0,55	3,84	0,0409	Apol9a	Mus musculus apolipoprotein L 9a (Apol9a), transcript variant 1, mRNA [NM_173786]
A_51_P411271	0,55	4,23	0,0294	Nfe2l2	Mus musculus nuclear factor, erythroid derived 2, like 2 (Nfe2l2), mRNA [NM_010902]
A_51_P451052	0,55	4,52	0,0232	Pgm5	Mus musculus phosphoglucomutase 5 (Pgm5), mRNA [NM_175013]
A_55_P2102126	0,55	4,72	0,0194	Lamp2	Mus musculus lysosomal-associated membrane protein 2 (Lamp2), transcript variant 1, mRNA [NM_001017959]
A_52_P300730	0,55	4,00	0,0359	Hmga2	Mus musculus high mobility group AT-hook 2 (Hmga2), mRNA [NM_010441]
A_51_P430259	0,55	3,76	0,0445	1700009P17 Rik	Mus musculus RIKEN cDNA 1700009P17 gene (1700009P17Rik), mRNA [NM_001081275]
A_51_P394802	0,55	4,37	0,0264	Fam111a	Mus musculus family with sequence similarity 111, member A (Fam111a), mRNA [NM_026640]
A_51_P190845	0,55	3,97	0,0366	Atp6v1b2	Mus musculus ATPase, H+ transporting, lysosomal V1 subunit B2 (Atp6v1b2), mRNA [NM_007509]
A_52_P279110	0,55	3,75	0,0450	9130019P16 Rik	Mus musculus adult male cecum cDNA, RIKEN full-length enriched library, clone:9130019P16 product: hypothetical protein, full



					insert sequence. [AK018637]
A_55_P2007196	0,55	4,09	0,0335	Aldoa	Mus musculus aldolase A, fructose-bisphosphate (Aldoa), transcript variant 1, mRNA [NM_001177307]
A_55_P2039320	0,55	3,96	0,0368	Zfp365	Mus musculus zinc finger protein 365 (Zfp365), mRNA [NM_178679]
A_55_P2077068	0,55	5,00	0,0156	Malt1	Mus musculus mucosa associated lymphoid tissue lymphoma translocation gene 1 (Malt1), mRNA [NM_172833]
A_51_P421094	0,55	4,68	0,0201	Ascc3	Mus musculus activating signal cointegrator 1 complex subunit 3 (Ascc3), mRNA [NM_198007]
A_51_P351194	0,55	3,72	0,0462	Cnfn	Mus musculus cornifelin (Cnfn), transcript variant 1, mRNA [NM_028219]
A_55_P1995092	0,55	5,67	0,0094	H2-Q10	Mus musculus histocompatibility 2, Q region locus 10 (H2-Q10), mRNA [NM_010391]
A_55_P2166985	0,55	4,78	0,0185	Dedd2	Mus musculus death effector domain-containing DNA binding protein 2 (Dedd2), mRNA [NM_207677]
A_51_P108978	0,54	4,37	0,0264	Myadm	Mus musculus myeloid-associated differentiation marker (Myadm), transcript variant 4, mRNA [NM_016969]
A_55_P2080603	0,54	3,77	0,0441	Hspa8	Mus musculus heat shock protein 8 (Hspa8), mRNA [NM_031165]
A_52_P476754	0,54	3,79	0,0430	Ubash3b	Mus musculus ubiquitin associated and SH3 domain containing, B (Ubash3b), mRNA [NM_176860]
A_51_P155313	0,54	4,37	0,0263	Gsto1	Mus musculus glutathione S-transferase omega 1 (Gsto1), mRNA [NM_010362]
A_55_P2064451	0,54	4,14	0,0317	Pced1a	Mus musculus PC-esterase domain containing 1A (Pced1a), transcript variant 1, mRNA [NM_178762]
A_55_P1996927	0,54	4,60	0,0216	Prnp	Mus musculus prion protein (Prnp), transcript variant 2, mRNA [NM_001278256]
A_55_P2180415	0,54	4,07	0,0339	Cd72	Mus musculus CD72 antigen (Cd72), transcript variant 1, mRNA [NM_001110320]
A_51_P276063	0,54	4,43	0,0250	Phyh	Mus musculus phytanoyl-CoA hydroxylase (Phyh), mRNA [NM_010726]
A_51_P191463	0,54	5,52	0,0104	H2-M2	PREDICTED: Mus musculus histocompatibility 2, M region locus 2 (H2-M2), transcript variant X1, mRNA [XM_006525458]
A_55_P1981494	0,53	5,11	0,0144	LOC102641349	PREDICTED: Mus musculus h-2 class I histocompatibility antigen, L-D alpha chain-like (LOC102641349), mRNA [XM_006544512]
A_51_P472901	0,53	6,27	0,0062	Slc3a2	Mus musculus solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 (Slc3a2), transcript variant 2, mRNA [NM_008577]
A_55_P1960456	0,53	4,70	0,0198	Larp1	Mus musculus La ribonucleoprotein domain family, member 1 (Larp1), mRNA [NM_028451]
A_55_P2037608	0,53	4,82	0,0180	Acp5	Mus musculus acid phosphatase 5, tartrate resistant (Acp5), transcript variant 1, mRNA [NM_001102405]
A_55_P2263098	0,53	4,09	0,0334	A130078K24 Rik	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130078K24 product:unclassifiable, full insert sequence. [AK038100]
A_55_P2023542	0,53	4,19	0,0304	Ccr7	Mus musculus chemokine (C-C motif) receptor 7 (Ccr7), mRNA [NM_007719]
A_55_P2085295	0,53	4,47	0,0240	Inf2	Mus musculus inverted formin, FH2 and WH2 domain containing (Inf2), mRNA [NM_198411]
A_55_P2067505	0,53	5,20	0,0135	Slc16a3	Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 3 (Slc16a3), mRNA [NM_030696]
A_55_P2045258	0,53	5,00	0,0156	Ehd1	Mus musculus EH-domain containing 1 (Ehd1), mRNA [NM_010119]
A_55_P2193419	0,53	4,18	0,0307	4731420N21	Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4731420N21 product:unclassifiable, full insert sequence. [AK076305]
A_51_P506755	0,53	5,65	0,0095	Tep1	Mus musculus telomerase associated protein 1 (Tep1), mRNA [NM_009351]
A_55_P1987201	0,53	4,51	0,0235	Capn2	Mus musculus calpain 2 (Capn2), mRNA [NM_009794]
A_51_P241074	0,53	4,88	0,0174	Map2k1	Mus musculus mitogen-activated protein kinase kinase 1 (Map2k1), mRNA [NM_008927]
A_51_P513568	0,53	3,67	0,0482	Stx11	Mus musculus syntaxin 11 (Stx11), transcript variant 1, mRNA [NM_029075]
A_66_P122219	0,53	4,86	0,0176	Kcnd3	Mus musculus potassium voltage-gated channel, Shal-related family, member 3 (Kcnd3), transcript variant 1, mRNA [NM_001039347]
A_55_P2167025	0,53	4,28	0,0283	Pvr12	Mus musculus poliovirus receptor-related 2 (Pvr12), transcript variant 1, mRNA [NM_008990]
A_55_P2008538	0,53	5,88	0,0082	Chmp4b	Mus musculus charged multivesicular body protein 4B (Chmp4b), mRNA [NM_029362]
A_51_P460734	0,53	4,47	0,0240	Prkcd	Mus musculus protein kinase C, delta (Prkcd), mRNA [NM_011103]
A_55_P1953650	0,53	4,27	0,0285	Zdhc18	Mus musculus zinc finger, DHHC domain containing 18 (Zdhc18), mRNA [NM_001017968]
A_52_P329917	0,52	3,71	0,0464	Prrg2	Mus musculus proline-rich Gla (G-carboxyglutamic acid) polypeptide 2 (Prrg2), mRNA [NM_022999]
A_55_P1966659	0,52	4,68	0,0201	LOC547349	Mus musculus MHC class I family member (LOC547349), mRNA [NM_001025208]
A_51_P519251	0,52	3,87	0,0399	Nupr1	Mus musculus nuclear protein transcription regulator 1 (Nupr1), mRNA [NM_019738]
A_55_P2211457	0,52	3,84	0,0409	9430018G01 Rik	Mus musculus RIKEN cDNA 9430018G01 gene (9430018G01Rik), long non-coding RNA [NR_045988]
A_55_P2183493	0,52	3,79	0,0430	Spcc3	Mus musculus signal peptidase complex subunit 3 homolog (S. cerevisiae) (Spcc3), mRNA [NM_029701]
A_55_P2103837	0,52	4,12	0,0324	Gbp4	Mus musculus guanylate binding protein 4 (Gbp4), transcript variant 1, mRNA [NM_001256005]
A_55_P2072373	0,52	5,91	0,0080	Msn	Mus musculus moesin (Msn), mRNA [NM_010833]
A_55_P2401403	0,52	4,50	0,0237	C030046G05	Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030046G05 product:unclassifiable, full insert sequence. [AK081287]
A_55_P2059342	0,52	5,53	0,0103	Lamp1	Mus musculus lysosomal-associated membrane protein 1 (Lamp1), mRNA [NM_010684]

A_52_P577748	0,52	3,64	0,0496	Lpxn	Mus musculus leupaxin (Lpxn), mRNA [NM_134152]
A_55_P2032818	0,52	3,98	0,0363	Trim2	Mus musculus tripartite motif-containing 2 (Trim2), transcript variant 3, mRNA [NM_001271727]
A_51_P381260	0,52	4,29	0,0282	Fxyd5	Mus musculus FXYD domain-containing ion transport regulator 5 (Fxyd5), transcript variant 2, mRNA [NM_008761]
A_55_P1984259	0,52	3,74	0,0452	AB041803	Mus musculus cDNA sequence AB041803 (AB041803), transcript variant A, long non-coding RNA [NR_110469]
A_51_P465232	0,52	5,79	0,0086	Mcf2	Mus musculus multiple coagulation factor deficiency 2 (Mcf2), transcript variant 2, mRNA [NM_139295]
A_51_P343833	0,52	4,38	0,0261	Traf1	Mus musculus TNF receptor-associated factor 1 (Traf1), mRNA [NM_009421]
A_55_P2053491	0,52	6,27	0,0062	Pdia6	Mus musculus protein disulfide isomerase associated 6 (Pdia6), mRNA [NM_027959]
A_55_P2088490	0,52	4,42	0,0252	Acad10	Mus musculus acyl-Coenzyme A dehydrogenase family, member 10 (Acad10), mRNA [NM_028037]
A_51_P469968	0,52	4,15	0,0315	H2-M3	Mus musculus histocompatibility 2, M region locus 3 (H2-M3), mRNA [NM_013819]
A_55_P2150179	0,51	4,39	0,0258	C1s2	Mus musculus complement component 1, s subcomponent 2 (C1s2), mRNA [NM_173864]
A_51_P233815	0,51	4,17	0,0310	Tmem126a	Mus musculus transmembrane protein 126A (Tmem126a), mRNA [NM_025460]
A_55_P2045622	0,51	4,26	0,0289	Setdb2	Mus musculus SET domain, bifurcated 2 (Setdb2), mRNA [NM_001081024]
A_52_P325116	0,51	3,81	0,0422	Gramd1b	GRAM domain containing 1B [Source:MGI Symbol;Acc:MGI:1925037] [ENSMUST00000165104]
A_55_P1975714	0,51	4,95	0,0162	Tor1a1p1	Mus musculus torsin A interacting protein 1 (Tor1a1p1), transcript variant 1, mRNA [NM_001160018]
A_55_P2083449	0,51	5,07	0,0147	Spryd7	Mus musculus SPRY domain containing 7 (Spryd7), mRNA [NM_025697]
A_55_P2150555	0,51	4,61	0,0214	Pcgf5	Mus musculus polycomb group ring finger 5 (Pcgf5), mRNA [NM_029508]
A_55_P1958480	0,51	3,72	0,0462	Gm3239	PREDICTED: Mus musculus predicted gene 3239 (Gm3239), transcript variant X1, mRNA [XM_006518205]
A_55_P2177026	0,51	4,21	0,0301	Mafg	Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian) (Mafg), mRNA [NM_010756]
A_51_P360004	0,51	4,30	0,0279	Ocstamp	Mus musculus osteoclast stimulatory transmembrane protein (Ocstamp), mRNA [NM_029021]
A_55_P1961302	0,51	3,85	0,0405	Gm11974	Mus musculus predicted gene 11974 (Gm11974), long non-coding RNA [NR_045893]
A_66_P140185	0,51	3,75	0,0448	Rgs9	Mus musculus regulator of G-protein signaling 9 (Rgs9), transcript variant 2, mRNA [NM_001165934]
A_55_P2065621	0,50	4,21	0,0299	Hook2	Mus musculus hook homolog 2 (Drosophila) (Hook2), transcript variant 1, mRNA [NM_133255]
A_55_P2162269	0,50	4,22	0,0297	Bri3	Mus musculus brain protein I3 (Bri3), transcript variant 1, mRNA [NM_018772]
A_51_P483473	0,50	3,92	0,0381	St3gal5	Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 5 (St3gal5), transcript variant 2, mRNA [NM_011375]
A_55_P1998442	0,50	4,31	0,0275	Sema3f	Mus musculus sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F (Sema3f), mRNA [NM_011349]
A_55_P1997766	0,50	6,30	0,0061	Acp5	Mus musculus acid phosphatase 5, tartrate resistant (Acp5), transcript variant 1, mRNA [NM_001102405]
A_51_P509098	0,50	3,96	0,0369	Asah1	Mus musculus N-acylsphingosine amidohydrolase 1 (Asah1), mRNA [NM_019734]
A_55_P2169391	0,50	5,19	0,0136	Atp6v1a	Mus musculus ATPase, H+ transporting, lysosomal V1 subunit A (Atp6v1a), mRNA [NM_007508]
A_55_P2159895	0,50	4,18	0,0307	Zfp52	Mus musculus zinc finger protein 52 (Zfp52), mRNA [NM_144515]
A_52_P267391	0,50	5,02	0,0152	Trim12a	Mus musculus tripartite motif-containing 12A (Trim12a), mRNA [NM_023835]
A_55_P2126950	0,50	3,65	0,0488	Zfp467	Mus musculus zinc finger protein 467 (Zfp467), transcript variant 4, mRNA [NM_001085417]
A_51_P171200	0,50	4,17	0,0310	Golm1	Mus musculus golgi membrane protein 1 (Golm1), transcript variant 1, mRNA [NM_027307]
A_51_P347961	0,50	5,14	0,0140	Npc2	Mus musculus Niemann-Pick type C2 (Npc2), mRNA [NM_023409]
A_51_P423578	0,50	4,88	0,0173	Slfn2	Mus musculus schlafen 2 (Slfn2), mRNA [NM_011408]
A_51_P502132	0,50	3,81	0,0424	Mmp23	Mus musculus matrix metalloproteinase 23 (Mmp23), mRNA [NM_011985]
A_55_P2286650	0,50	3,86	0,0401	6720462K09 Rik	Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720462K09 product:unclassifiable, full insert sequence. [AK032850]
A_55_P2106175	0,50	3,63	0,0498	Gch1	Mus musculus GTP cyclohydrolase 1 (Gch1), mRNA [NM_008102]
A_55_P1999902	0,50	5,64	0,0095	Pip5k1a	phosphatidylinositol-4-phosphate 5-kinase, type 1 alpha [Source:MGI Symbol;Acc:MGI:107929] [ENSMUST00000107229]
A_55_P2027102	0,49	3,89	0,0392	Rgs3	Mus musculus regulator of G-protein signaling 3 (Rgs3), transcript variant 2, mRNA [NM_134257]
A_55_P2107447	0,49	4,20	0,0302	Rab37	Mus musculus RAB37, member RAS oncogene family (Rab37), transcript variant 2, mRNA [NM_001163753]
A_55_P2013058	0,49	4,17	0,0310	Shb	Mus musculus src homology 2 domain-containing transforming protein B (Shb), mRNA [NM_001033306]
A_55_P2092526	0,49	4,72	0,0195	Tgif1	Mus musculus TGFB-induced factor homeobox 1 (Tgif1), transcript variant 1, mRNA [NM_001164075]
A_55_P2142439	0,49	4,66	0,0204	Echdc2	Mus musculus enoyl Coenzyme A hydratase domain containing 2 (Echdc2), transcript variant 1, mRNA [NM_026728]
A_55_P2069721	0,49	4,18	0,0307	Hspa8	Mus musculus heat shock protein 8 (Hspa8), mRNA [NM_031165]
A_51_P151126	0,49	3,86	0,0402	Cd52	Mus musculus CD52 antigen (Cd52), mRNA [NM_013706]
A_51_P211491	0,49	5,04	0,0150	Gusb	Mus musculus glucuronidase, beta (Gusb), mRNA [NM_010368]

A_52_P604613	0,49	4,09	0,0334	S1pr2	Mus musculus sphingosine-1-phosphate receptor 2 (S1pr2), mRNA [NM_010333]
A_55_P1953593	0,49	4,31	0,0277	Ece2	Mus musculus endothelin converting enzyme 2 (Ece2), transcript variant 3, mRNA [NM_025462]
A_55_P2100899	0,49	4,64	0,0209	Arnt	Mus musculus aryl hydrocarbon receptor nuclear translocator (Arnt), transcript variant 1, mRNA [NM_001037737]
A_55_P2002578	0,49	3,80	0,0425	Ephx1	Mus musculus epoxide hydrolase 1, microsomal (Ephx1), mRNA [NM_010145]
A_51_P108459	0,49	4,48	0,0240	Gpr65	Mus musculus G-protein coupled receptor 65 (Gpr65), mRNA [NM_008152]
A_51_P419286	0,48	4,04	0,0346	Batf3	Mus musculus basic leucine zipper transcription factor, ATF-like 3 (Batf3), mRNA [NM_030060]
A_55_P1979341	0,48	5,88	0,0082	Cyba	Mus musculus cytochrome b-245, alpha polypeptide (Cyba), mRNA [NM_007806]
A_51_P430900	0,48	3,95	0,0373	Dusp1	Mus musculus dual specificity phosphatase 1 (Dusp1), mRNA [NM_013642]
A_55_P1957845	0,48	4,39	0,0259	Tnfaip1	Mus musculus tumor necrosis factor, alpha-induced protein 1 (endothelial) (Tnfaip1), transcript variant 1, mRNA [NM_009395]
A_52_P650333	0,48	4,48	0,0240	BB014433	Mus musculus expressed sequence BB014433 (BB014433), long non-coding RNA [NR_037972]
A_51_P122582	0,48	6,22	0,0064	Daglb	Mus musculus diacylglycerol lipase, beta (Daglb), mRNA [NM_144915]
A_55_P2072801	0,48	4,49	0,0237	Lypd5	Mus musculus Ly6/Plaur domain containing 5 (Lypd5), mRNA [NM_029806]
A_55_P2095365	0,48	3,72	0,0461	Meaf6	Mus musculus MYST/Esa1-associated factor 6 (Meaf6), transcript variant 1, mRNA [NM_027310]
A_51_P406583	0,48	3,92	0,0381	Myo1e	Mus musculus myosin 1E (Myo1e), mRNA [NM_181072]
A_51_P314285	0,48	5,09	0,0146	Tmem86a	Mus musculus transmembrane protein 86A (Tmem86a), mRNA [NM_026436]
A_55_P2121945	0,48	4,28	0,0282	Cnot6l	Mus musculus CCR4-NOT transcription complex, subunit 6-like (Cnot6l), transcript variant 3, mRNA [NM_001285511]
A_66_P108019	0,48	4,38	0,0261	Heatr1	Mus musculus HEAT repeat containing 1 (Heatr1), mRNA [NM_144835]
A_55_P1958255	0,48	4,36	0,0266	Rnf114	Mus musculus ring finger protein 114 (Rnf114), mRNA [NM_030743]
A_55_P2049572	0,47	4,77	0,0187	Pld2	Mus musculus phospholipase D2 (Pld2), mRNA [NM_008876]
A_51_P507023	0,47	4,66	0,0205	Nt5dc3	Mus musculus 5'-nucleotidase domain containing 3 (Nt5dc3), mRNA [NM_175331]
A_52_P370311	0,47	3,94	0,0373	Plbd2	Mus musculus phospholipase B domain containing 2 (Plbd2), mRNA [NM_023625]
A_51_P172573	0,47	5,55	0,0102	Sod2	Mus musculus superoxide dismutase 2, mitochondrial (Sod2), mRNA [NM_013671]
A_51_P269084	0,47	4,17	0,0310	Chchd10	Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 10 (Chchd10), mRNA [NM_175329]
A_55_P2070079	0,47	4,04	0,0345	Lgals9	Mus musculus lectin, galactose binding, soluble 9 (Lgals9), transcript variant 1, mRNA [NM_010708]
A_51_P229599	0,47	3,89	0,0392	Etnk1	Mus musculus ethanolamine kinase 1 (Etnk1), mRNA [NM_029250]
A_51_P483658	0,47	3,87	0,0399	Trim3	Mus musculus tripartite motif-containing 3 (Trim3), transcript variant 2, mRNA [NM_018880]
A_55_P2097508	0,47	3,69	0,0472	Mcc	Mus musculus mutated in colorectal cancers (Mcc), transcript variant 1, mRNA [NM_001085373]
A_55_P2047748	0,46	4,61	0,0215	Mafg	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian) [Source:MGI Symbol;Acc:MGI:96911] [ENSMUST00000058162]
A_55_P2092953	0,46	4,73	0,0193	Traf5	Mus musculus TNF receptor-associated factor 5 (Traf5), mRNA [NM_011633]
A_52_P79187	0,46	4,71	0,0196	Ankrd12	Mus musculus ankyrin repeat domain 12 (Ankrd12), mRNA [NM_001025572]
A_55_P1979684	0,46	4,13	0,0322	Rhoc	Mus musculus ras homolog gene family, member C (Rhoc), transcript variant 1, mRNA [NM_001291859]
A_51_P108020	0,46	3,73	0,0457	Zmynd15	Mus musculus zinc finger, MYND-type containing 15 (Zmynd15), mRNA [NM_001029929]
A_55_P2010778	0,46	4,16	0,0314	Il11ra1	Mus musculus interleukin 11 receptor, alpha chain 1 (Il11ra1), transcript variant 3, mRNA [NM_001172054]
A_55_P1965070	0,46	3,96	0,0369	Map7d1	Mus musculus MAP7 domain containing 1 (Map7d1), transcript variant 1, mRNA [NM_144941]
A_66_P107703	0,46	3,89	0,0391	Smox	Mus musculus spermine oxidase (Smox), transcript variant 2, mRNA [NM_145533]
A_51_P242414	0,46	3,91	0,0385	Micall1	Mus musculus microtubule associated monooxygenase, calponin and LIM domain containing-like 1 (Micall1), mRNA [NM_177461]
A_55_P1979863	0,46	4,89	0,0172	Syne2	Mus musculus spectrin repeat containing, nuclear envelope 2 (Syne2), mRNA [NM_001005510]
A_55_P1956687	0,46	3,80	0,0428	Rab37	Mus musculus RAB37, member RAS oncogene family (Rab37), transcript variant 2, mRNA [NM_001163753]
A_55_P1993468	0,46	3,92	0,0382	LOC101055939	PREDICTED: Mus musculus kinesin-like protein KIF19-like (LOC101055939), mRNA [XM_006504777]
A_52_P282762	0,46	3,68	0,0477	Myd88	Mus musculus myeloid differentiation primary response gene 88 (Myd88), mRNA [NM_010851]
A_55_P2008755	0,45	4,72	0,0195	Mrpl30	Mus musculus mitochondrial ribosomal protein L30, mRNA (cDNA clone MGC:7981 IMAGE:3585410), complete cds. [BC004614]
A_55_P2008071	0,45	3,99	0,0361	Prkcd	Mus musculus protein kinase C, delta (Prkcd), mRNA [NM_011103]
A_52_P127362	0,45	4,99	0,0156	Vmp1	Mus musculus vacuole membrane protein 1 (Vmp1), mRNA [NM_029478]
A_51_P209930	0,45	3,64	0,0494	Rtn2	Mus musculus reticulon 2 (Z-band associated protein) (Rtn2), transcript variant B, mRNA [NM_013648]
A_51_P369803	0,45	4,28	0,0282	Psmb9	Mus musculus proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2) (Psmb9), mRNA [NM_013585]
A_55_P2000039	0,45	4,05	0,0343	Prf1	Mus musculus perforin 1 (pore forming protein) (Prf1), mRNA [NM_011073]



A_55_P2051254	0,45	4,77	0,0187	Pvt1	Mus musculus plasmacytoma variant translocation 1 (Pvt1), long non-coding RNA [NR_003368]
A_55_P2016675	0,45	4,60	0,0216	Ogfr	Mus musculus opioid growth factor receptor (Ogfr), mRNA [NM_031373]
A_55_P2227154	0,45	3,80	0,0425	A530041M06 Rik	Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530041M06 product:unclassifiable, full insert sequence. [AK040901]
A_51_P272563	0,45	4,40	0,0258	Naa25	Mus musculus N(alpha)-acetyltransferase 25, NaTB auxiliary subunit (Naa25), mRNA [NM_172722]
A_55_P2023076	0,45	4,81	0,0181	Arpc1b	Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA [NM_023142]
A_55_P2154208	0,45	4,87	0,0174	Zc3hav1	PREDICTED: Mus musculus zinc finger CCCH type, antiviral 1 (Zc3hav1), transcript variant X1, mRNA [XM_006506779]
A_51_P437938	0,45	4,06	0,0341	Coa5	Mus musculus cytochrome C oxidase assembly factor 5 (Coa5), mRNA [NM_198006]
A_55_P2249556	0,45	4,33	0,0273	A630081D01 Rik	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630081D01 product:unclassifiable, full insert sequence. [AK042310]
A_66_P129800	0,44	3,70	0,0467	Rab8b	Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA [NM_173413]
A_55_P2018847	0,44	5,13	0,0142	Crlf2	Mus musculus cytokine receptor-like factor 2 (Crlf2), transcript variant 1, mRNA [NM_001164735]
A_55_P2034058	0,44	5,07	0,0147	Prh1	Mus musculus proline rich protein HaeIII subfamily 1 (Prh1), mRNA [NM_011174]
A_55_P2106235	0,44	4,29	0,0281	Syngn2	Mus musculus synaptogyrin 2 (Syngn2), mRNA [NM_009304]
A_55_P2096465	0,44	4,56	0,0225	Gm6238	PREDICTED: Mus musculus predicted pseudogene 6238 (Gm6238), mRNA [XM_006544598]
A_51_P349878	0,44	5,22	0,0132	Txndc17	Mus musculus thioredoxin domain containing 17 (Txndc17), mRNA [NM_026559]
A_51_P342906	0,44	4,17	0,0310	Sh3bp1	Mus musculus SH3-domain binding protein 1 (Sh3bp1), mRNA [NM_009164]
A_51_P152040	0,44	4,96	0,0161	Zfp385a	Mus musculus zinc finger protein 385A (Zfp385a), mRNA [NM_013866]
A_55_P1960566	0,44	4,91	0,0168	Ybx3	Mus musculus Y box protein 3 (Ybx3), transcript variant 1, mRNA [NM_139117]
A_51_P364485	0,44	3,91	0,0385	Tnfaip2	Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfaip2), mRNA [NM_009396]
A_51_P320105	0,44	4,54	0,0229	Smyd2	Mus musculus SET and MYND domain containing 2 (Smyd2), mRNA [NM_026796]
A_52_P108447	0,44	3,91	0,0384	Glis2	Mus musculus GLIS family zinc finger 2 (Glis2), mRNA [NM_031184]
A_52_P425860	0,44	4,54	0,0229	Iqsec1	Mus musculus IQ motif and Sec7 domain 1 (Iqsec1), transcript variant 2, mRNA [NM_001134384]
A_52_P428745	0,43	4,92	0,0168	Camk2d	Mus musculus calcium/calmodulin-dependent protein kinase II, delta (Camk2d), transcript variant 1, mRNA [NM_001025439]
A_55_P2017491	0,43	4,47	0,0241	Rbm43	Mus musculus RNA binding motif protein 43 (Rbm43), transcript variant 2, mRNA [NM_001141981]
A_51_P406020	0,43	4,90	0,0171	Abhd4	Mus musculus abhydrolase domain containing 4 (Abhd4), transcript variant 1, mRNA [NM_134076]
A_52_P431859	0,43	4,34	0,0269	201011101Rik	Mus musculus RIKEN cDNA 2010111101 gene (2010111101Rik), transcript variant 1, mRNA [NM_001289924]
A_52_P37498	0,43	4,39	0,0259	Dpcd	Mus musculus deleted in primary ciliary dyskinesia (Dpcd), mRNA [NM_172639]
A_55_P2048794	0,43	3,88	0,0394	Cd82	Mus musculus CD82 antigen (Cd82), transcript variant 3, mRNA [NM_001271432]
A_55_P2166555	0,43	4,56	0,0224	Gm5637	PREDICTED: Mus musculus predicted pseudogene 5637 (Gm5637), mRNA [XM_006544567]
A_55_P1954067	0,43	3,64	0,0494	Nrxn2	Mus musculus neuroligin 2 (Nrxn2), transcript variant 1, mRNA [NM_001205234]
A_52_P315111	0,42	4,59	0,0218	Mrpl52	Mus musculus mitochondrial ribosomal protein L52 (Mrpl52), mRNA [NM_026851]
A_52_P160936	0,42	5,08	0,0147	Gusb	glucuronidase, beta [Source:MGI Symbol;Acc:MGI:95872] [ENSMUST00000122994]
A_55_P1999172	0,42	3,84	0,0407	Nat10	Mus musculus N-acetyltransferase 10 (Nat10), mRNA [NM_153126]
A_55_P2179030	0,42	5,13	0,0141	Ostf1	Mus musculus osteoclast stimulating factor 1 (Ostf1), mRNA [NM_017375]
A_51_P502614	0,42	4,33	0,0271	Dusp6	Mus musculus dual specificity phosphatase 6 (Dusp6), mRNA [NM_026268]
A_51_P122246	0,42	5,25	0,0129	Creld2	Mus musculus cysteine-rich with EGF-like domains 2 (Creld2), mRNA [NM_029720]
A_51_P320888	0,42	4,03	0,0349	Cln5	Mus musculus ceroid-lipofuscinosis, neuronal 5 (Cln5), mRNA [NM_001033242]
A_55_P2044282	0,42	4,34	0,0270	Mpp6	Mus musculus membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6) (Mpp6), transcript variant 1, mRNA [NM_001164734]
A_51_P278994	0,42	3,72	0,0461	Swap70	Mus musculus SWA-70 protein (Swap70), mRNA [NM_009302]
A_52_P624149	0,42	3,80	0,0428	Hsp90b1	Mus musculus heat shock protein 90, beta (Grp94), member 1 (Hsp90b1), mRNA [NM_011631]
A_55_P2016623	0,41	3,74	0,0452	Gm5068	PREDICTED: Mus musculus predicted gene 5068 (Gm5068), mRNA [XM_006516427]
A_52_P516091	0,41	4,17	0,0310	Pla2g15	Mus musculus phospholipase A2, group XV (Pla2g15), mRNA [NM_133792]
A_51_P347823	0,41	3,64	0,0493	Ipo4	Mus musculus importin 4 (Ipo4), mRNA [NM_024267]
A_55_P2012399	0,41	4,14	0,0316	Tom1	Mus musculus target of myb1 homolog (chicken), mRNA (cDNA clone MGC:103153 IMAGE:2866013), complete cds. [BC093520]
A_52_P193925	0,41	4,01	0,0355	Sulf2	Mus musculus sulfatase 2 (Sulf2), transcript variant 2, mRNA [NM_028072]
A_55_P2144210	0,41	4,50	0,0237	Snx5	Mus musculus sorting nexin 5 (Snx5), transcript variant 1, mRNA [NM_001199188]
A_55_P1988498	0,41	4,20	0,0303	Naa20	Mus musculus N(alpha)-acetyltransferase 20, NaTB catalytic subunit (Naa20), transcript variant 2, mRNA [NM_026425]

A_66_P105422	0,41	4,43	0,0250	Lonrf3	Mus musculus LON peptidase N-terminal domain and ring finger 3 (Lonrf3), mRNA [NM_028894]
A_55_P2128042	0,41	4,18	0,0307	LOC102633612	PREDICTED: Mus musculus helicase SRCAP-like (LOC102633612), mRNA [XM_006543203]
A_51_P309158	0,40	3,97	0,0365	Snx20	Mus musculus sorting nexin 20 (Snx20), mRNA [NM_027840]
A_51_P491976	0,40	3,66	0,0485	Fbxw17	Mus musculus F-box and WD-40 domain protein 17 (Fbxw17), mRNA [NM_175401]
A_52_P351816	0,40	4,27	0,0285	Itgb1	Mus musculus integrin beta 1 (fibronectin receptor beta) (Itgb1), mRNA [NM_010578]
A_51_P438666	0,40	3,82	0,0419	Keap1	Mus musculus kelch-like ECH-associated protein 1 (Keap1), transcript variant 1, mRNA [NM_016679]
A_55_P2033420	0,40	4,79	0,0184	Spp12a	Mus musculus signal peptide peptidase like 2A (Spp12a), mRNA [NM_023220]
A_52_P469381	0,40	3,72	0,0461	Comtd1	Mus musculus catechol-O-methyltransferase domain containing 1 (Comtd1), mRNA [NM_026965]
A_55_P2099378	0,40	4,81	0,0181	Tfe3	Mus musculus transcription factor E3 (Tfe3), transcript variant 5, mRNA [NM_001271490]
A_66_P103271	0,40	5,35	0,0119	Irf2bp2	Mus musculus interferon regulatory factor 2 binding protein 2 (Irf2bp2), mRNA [NM_001164598]
A_55_P2115136	0,40	3,64	0,0495	4632428N05Rik	Mus musculus RIKEN cDNA 4632428N05 gene (4632428N05Rik), transcript variant 1, mRNA [NM_028732]
A_55_P1959425	0,40	3,73	0,0454	Slc16a3	Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 3 (Slc16a3), mRNA [NM_030696]
A_55_P2035311	0,40	5,47	0,0108	3110099E03Rik	Mus musculus RIKEN cDNA 3110099E03 gene (3110099E03Rik), long non-coding RNA [NR_030712]
A_51_P305437	0,40	3,80	0,0428	Rcn1	Mus musculus reticulocalbin 1 (Rcn1), mRNA [NM_009037]
A_55_P2010223	0,40	4,45	0,0244	Gabarap	Mus musculus gamma-aminobutyric acid receptor associated protein (Gabarap), mRNA [NM_019749]
A_52_P84096	0,39	4,32	0,0275	Pgd	Mus musculus phosphogluconate dehydrogenase (Pgd), mRNA [NM_001081274]
A_55_P2022604	0,39	3,97	0,0365	Exoc3l4	Mus musculus exocyst complex component 3-like 4 (Exoc3l4), transcript variant 4, mRNA [NM_001289489]
A_55_P2047489	0,39	3,92	0,0381	Calm1	Mus musculus calmodulin 1 (Calm1), mRNA [NM_009790]
A_51_P243134	0,39	4,19	0,0305	Adcy6	Mus musculus adenylate cyclase 6 (Adcy6), mRNA [NM_007405]
A_55_P1987222	0,39	3,94	0,0374	Fuom	fucose mutarotase [Source:MGI Symbol;Acc:MGI:1916314] [ENSMUST00000120034]
A_55_P2005055	0,39	3,90	0,0389	Pepd	Mus musculus peptidase D (Pepd), mRNA [NM_008820]
A_52_P594768	0,39	4,30	0,0279	Aprt	Mus musculus adenine phosphoribosyl transferase (Aprt), mRNA [NM_009698]
A_55_P2020153	0,38	4,22	0,0297	Cycs	Mus musculus cytochrome c, somatic (Cycs), mRNA [NM_007808]
A_51_P222475	0,38	3,93	0,0380	Ehbp111	Mus musculus EH domain binding protein 1-like 1 (Ehbp111), transcript variant B, mRNA [NM_053252]
A_52_P240542	0,38	4,40	0,0257	Id2	Mus musculus inhibitor of DNA binding 2 (Id2), mRNA [NM_010496]
A_55_P1978136	0,38	3,97	0,0366	Tnip2	Mus musculus TNFAIP3 interacting protein 2 (Tnip2), mRNA [NM_139064]
A_51_P510849	0,38	4,17	0,0310	Tmem50b	Mus musculus transmembrane protein 50B (Tmem50b), mRNA [NM_030018]
A_55_P2166349	0,38	3,66	0,0488	Dnajc19	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 19 (Dnajc19), transcript variant 3, mRNA [NM_001286972]
A_55_P2173837	0,38	4,06	0,0340	Mpp6	Mus musculus membrane protein, palmitoylated 6 (MAGUK p55 subfamily member 6) (Mpp6), transcript variant 1, mRNA [NM_001164734]
A_55_P1974412	0,38	3,70	0,0468	Kat2a	Mus musculus K(lysine) acetyltransferase 2A (Kat2a), transcript variant 1, mRNA [NM_020004]
A_55_P2013043	0,38	4,03	0,0349	Serpinb6b	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 6b (Serpinb6b), mRNA [NM_011454]
A_55_P2074206	0,37	4,04	0,0345	Dlgap4	Mus musculus discs, large homolog-associated protein 4 (Drosophila) (Dlgap4), transcript variant 1, mRNA [NM_146128]
A_51_P240019	0,37	4,52	0,0232	Gyg	Mus musculus glycogenin (Gyg), mRNA [NM_013755]
A_55_P2020248	0,37	4,63	0,0211	Usp50	ubiquitin specific peptidase 50 [Source:MGI Symbol;Acc:MGI:1922333] [ENSMUST00000136319]
A_51_P172231	0,37	3,96	0,0368	Gsdmd	Mus musculus gasdermin D (Gsdmd), mRNA [NM_026960]
A_55_P1955587	0,37	3,66	0,0483	Hspd1	Mus musculus heat shock protein 1 (chaperonin) (Hspd1), mRNA [NM_010477]
A_55_P2062054	0,37	3,87	0,0398	Dnnd2	Mus musculus dysbindin (dystrobrevin binding protein 1) domain containing 2 (Dnnd2), transcript variant 2, mRNA [NM_026797]
A_55_P2126870	0,36	3,71	0,0465	Nsf	N-ethylmaleimide sensitive fusion protein [Source:MGI Symbol;Acc:MGI:104560] [ENSMUST00000107009]
A_55_P2010014	0,36	4,19	0,0304	Map7d1	Mus musculus MAP7 domain containing 1 (Map7d1), transcript variant 1, mRNA [NM_144941]
A_66_P109800	0,36	4,04	0,0346	Gcsh	Mus musculus glycine cleavage system protein H (aminomethyl carrier) (Gcsh), mRNA [NM_026572]
A_51_P454217	0,36	3,89	0,0391	Nfkb2	Mus musculus nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100 (Nfkb2), transcript variant 1, mRNA [NM_019408]
A_55_P1989663	0,35	4,41	0,0255	Slco3a1	Mus musculus solute carrier organic anion transporter family, member 3a1 (Slco3a1), transcript variant 1, mRNA [NM_023908]
A_55_P2003005	0,35	3,64	0,0496	Capza1	Mus musculus capping protein (actin filament) muscle Z-line, alpha 1 (Capza1), mRNA [NM_009797]
A_52_P15008	0,35	3,75	0,0448	Mapkapk2	Mus musculus MAP kinase-activated protein kinase 2 (Mapkapk2), mRNA [NM_008551]
A_55_P2145804	0,35	3,94	0,0376	Aen	Mus musculus apoptosis enhancing nuclease (Aen), transcript variant 1, mRNA [NM_026531]
A_55_P2103944	0,35	3,93	0,0377	Mrpl30	Mus musculus mitochondrial ribosomal protein L30 (Mrpl30), mRNA [NM_027098]

A_66_P124952	0,34	4,46	0,0244	Hspe1	Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA [NM_008303]
A_55_P2106489	0,34	3,90	0,0387	Ankrd52	Mus musculus ankyrin repeat domain 52 (Ankrd52), mRNA [NM_172790]
A_55_P2062642	0,34	4,34	0,0270	Magt1	Mus musculus magnesium transporter 1 (Magt1), transcript variant 2, mRNA [NM_025952]
A_55_P1955015	0,34	3,92	0,0382	Myo1g	Mus musculus myosin 1G (Myo1g), mRNA [NM_178440]
A_55_P2141884	0,34	3,67	0,0478	Tagln2	Mus musculus transgelin 2 (Tagln2), mRNA [NM_178598]
A_51_P453111	0,33	4,07	0,0339	Hexb	Mus musculus hexosaminidase B (Hexb), mRNA [NM_010422]
A_55_P1997145	0,33	4,12	0,0324	Nlr1	Mus musculus NLR family member X1 (Nlr1), transcript variant 1, mRNA [NM_001163743]
A_55_P2027067	0,33	3,88	0,0395	Phc2	Mus musculus polyhomeotic-like 2 (Drosophila) (Phc2), transcript variant 2, mRNA [NM_001195130]
A_55_P1957038	0,32	3,79	0,0431	Gstp2	Mus musculus glutathione S-transferase, pi 2 (Gstp2), mRNA [NM_181796]
A_55_P2129975	0,31	3,67	0,0483	Rabgef1	Mus musculus RAB guanine nucleotide exchange factor (GEF) 1 (Rabgef1), transcript variant 1, mRNA [NM_019983]
A_55_P2010020	0,30	3,74	0,0451	LOC100862466	PREDICTED: Mus musculus 40S ribosomal protein S19-like (LOC100862466), misc_RNA [XR_389864]
A_55_P1957613	0,30	3,67	0,0478	Ak2	Mus musculus adenylate kinase 2 (Ak2), transcript variant 2, mRNA [NM_016895]
A_55_P1988158	0,30	3,82	0,0419	Esd	Mus musculus esterase D/formylglutathione hydrolase (Esd), transcript variant 1, mRNA [NM_001285423]
A_51_P130110	-0,28	-3,74	0,0451	Idh3b	Mus musculus isocitrate dehydrogenase 3 (NAD+) beta (Idh3b), mRNA [NM_130884]
A_51_P465772	-0,29	-3,77	0,0440	Ruvbl1	Mus musculus RuvB-like protein 1 (Ruvbl1), mRNA [NM_019685]
A_51_P333869	-0,29	-3,65	0,0492	Ndn12	Mus musculus necdin-like 2 (Ndn12), mRNA [NM_023239]
A_55_P2008567	-0,29	-3,75	0,0449	Rps6	Mus musculus ribosomal protein S6 (Rps6), mRNA [NM_009096]
A_51_P314521	-0,29	-3,65	0,0489	Smim11	Mus musculus small integral membrane protein 11 (Smim11), mRNA [NM_138743]
A_51_P512629	-0,30	-3,73	0,0454	Ttl5	Mus musculus tubulin tyrosine ligase-like family, member 5 (Ttl5), mRNA [NM_001081423]
A_52_P540434	-0,30	-3,75	0,0448	Ppp1cc	Mus musculus protein phosphatase 1, catalytic subunit, gamma isoform (Ppp1cc), mRNA [NM_013636]
A_51_P272123	-0,30	-3,69	0,0472	Ndufa10	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 10 (Ndufa10), mRNA [NM_024197]
A_55_P2057916	-0,30	-3,68	0,0477	Pex5	Mus musculus peroxisomal biogenesis factor 5 (Pex5), transcript variant 5, mRNA [NM_001277805]
A_55_P2154870	-0,30	-4,01	0,0357	Sumo2	Mus musculus SMT3 suppressor of mif two 3 homolog 2 (yeast) (Sumo2), mRNA [NM_133354]
A_51_P109939	-0,30	-3,64	0,0496	Apoa1bp	Mus musculus apolipoprotein A-I binding protein (Apoa1bp), mRNA [NM_144897]
A_51_P271725	-0,30	-3,64	0,0495	Fundc1	Mus musculus FUN14 domain containing 1 (Fundc1), mRNA [NM_028058]
A_51_P454666	-0,30	-3,66	0,0484	Arl6ip4	Mus musculus ADP-ribosylation factor-like 6 interacting protein 4 (Arl6ip4), mRNA [NM_144509]
A_55_P1992445	-0,30	-3,73	0,0454	Vdac1	Mus musculus voltage-dependent anion channel 1 (Vdac1), mRNA [NM_011694]
A_55_P1953231	-0,30	-3,92	0,0383	Map2k5	Mus musculus mitogen-activated protein kinase kinase 5 (Map2k5), mRNA [NM_011840]
A_66_P106585	-0,31	-3,79	0,0430	Sae1	Mus musculus SUMO1 activating enzyme subunit 1 (Sae1), transcript variant 1, mRNA [NM_019748]
A_55_P1982872	-0,31	-3,65	0,0491	Naa10	Mus musculus N(alpha)-acetyltransferase 10, NatA catalytic subunit (Naa10), transcript variant 1, mRNA [NM_019870]
A_51_P424054	-0,31	-3,88	0,0396	Btb2	Mus musculus BTB (POZ) domain containing 2 (Btb2), mRNA [NM_145361]
A_66_P133202	-0,31	-3,76	0,0444	Nfyc	Mus musculus nuclear transcription factor-Y gamma (Nfyc), transcript variant 1, mRNA [NM_008692]
A_51_P345902	-0,31	-3,75	0,0446	Dohh	Mus musculus deoxyhypusine hydroxylase/monooxygenase (Dohh), mRNA [NM_133964]
A_51_P371091	-0,31	-3,75	0,0446	Rcsd1	Mus musculus RCS domain containing 1 (Rcsd1), transcript variant 1, mRNA [NM_178593]
A_51_P141535	-0,31	-3,68	0,0475	Oat	Mus musculus ornithine aminotransferase (Oat), mRNA [NM_016978]
A_55_P2074438	-0,31	-3,84	0,0409	Gtf2a1	Mus musculus general transcription factor II A, 1 (Gtf2a1), transcript variant 1, mRNA [NM_031391]
A_55_P1994917	-0,31	-3,68	0,0477	Wdr5	Mus musculus WD repeat domain 5 (Wdr5), mRNA [NM_080848]
A_55_P2103884	-0,31	-3,66	0,0486	Gm3258	Mus musculus predicted gene 3258 (Gm3258), mRNA [NM_011509]
A_55_P2247852	-0,31	-3,96	0,0368	Ap2s1	Mus musculus adaptor-related protein complex 2, sigma 1 subunit (Ap2s1), mRNA [NM_198613]
A_55_P2168098	-0,31	-3,77	0,0438	Plrg1	Mus musculus pleiotropic regulator 1, PRL1 homolog (Arabidopsis) (Plrg1), mRNA [NM_016784]
A_55_P1962139	-0,31	-3,90	0,0387	Mff	Mus musculus mitochondrial fission factor, mRNA (cDNA clone MGC:27850 IMAGE:3489844), complete cds. [BC016597]
A_55_P2019397	-0,31	-4,06	0,0340	Mtch1	Mus musculus mitochondrial carrier homolog 1 (C. elegans) (Mtch1), mRNA [NM_019880]
A_51_P111544	-0,32	-3,95	0,0370	Srp14	Mus musculus signal recognition particle 14 (Srp14), mRNA [NM_009273]
A_51_P173384	-0,32	-3,67	0,0478	Tada1	Mus musculus transcriptional adaptor 1 (Tada1), mRNA [NM_030245]
A_51_P259861	-0,32	-3,76	0,0444	Mett19	Mus musculus methyltransferase like 9 (Mett19), mRNA [NM_021554]
A_52_P59457	-0,32	-3,71	0,0466	Npr12	Mus musculus nitrogen permease regulator-like 2 (Npr12), mRNA [NM_018879]
A_55_P2126269	-0,32	-3,65	0,0491	Nmb	Mus musculus neuromedin B (Nmb), transcript variant 2, mRNA [NM_026523]

A_55_P2071496	-0,32	-4,17	0,0310	Fcf1	Mus musculus FCF1 small subunit (SSU) processome component homolog (S. cerevisiae), mRNA (cDNA clone MGC:41230 IMAGE:1068150), complete cds. [BC033045]
A_51_P491095	-0,32	-3,79	0,0430	Gzf1	Mus musculus GDNF-inducible zinc finger protein 1 (Gzf1), mRNA [NM_028986]
A_55_P2042698	-0,32	-3,88	0,0396	Hsd17b10	Mus musculus hydroxysteroid (17-beta) dehydrogenase 10 (Hsd17b10), mRNA [NM_016763]
A_51_P328669	-0,32	-3,63	0,0498	Ncbp1	Mus musculus nuclear cap binding protein subunit 1 (Ncbp1), mRNA [NM_001033201]
A_55_P2014169	-0,32	-4,30	0,0279	Ppa2	Mus musculus pyrophosphatase (inorganic) 2 (Ppa2), mRNA [NM_146141]
A_55_P2119817	-0,32	-4,10	0,0332	Plekhj1	Mus musculus pleckstrin homology domain containing, family J member 1 (Plekhj1), mRNA [NM_023900]
A_51_P434240	-0,32	-3,64	0,0496	Mrpl11	Mus musculus mitochondrial ribosomal protein L11 (Mrpl11), mRNA [NM_025553]
A_52_P180335	-0,32	-3,90	0,0387	Mrpl28	Mus musculus mitochondrial ribosomal protein L28 (Mrpl28), mRNA [NM_024227]
A_55_P2039235	-0,32	-3,64	0,0494	Mat2b	Mus musculus methionine adenosyltransferase II, beta (Mat2b), transcript variant 2, mRNA [NM_001199274]
A_51_P252784	-0,33	-3,73	0,0457	Fam216a	Mus musculus family with sequence similarity 216, member A (Fam216a), mRNA [NM_026883]
A_55_P1968523	-0,33	-3,63	0,0497	Btbd1	Mus musculus BTB (POZ) domain containing 1 (Btbd1), mRNA [NM_146193]
A_55_P2077608	-0,33	-3,84	0,0408	Hdac1	Mus musculus histone deacetylase 1 (Hdac1), mRNA [NM_008228]
A_55_P2102350	-0,33	-4,02	0,0353	Stambpl1	Mus musculus STAM binding protein like 1 (Stambpl1), mRNA [NM_029682]
A_51_P267544	-0,33	-3,85	0,0405	Frg1	Mus musculus FSHD region gene 1 (Frg1), mRNA [NM_013522]
A_51_P319879	-0,33	-3,88	0,0393	Acadm	Mus musculus acyl-Coenzyme A dehydrogenase, medium chain (Acadm), mRNA [NM_007382]
A_55_P2025665	-0,33	-3,65	0,0489	Mrpl40	Mus musculus mitochondrial ribosomal protein L40 (Mrpl40), mRNA [NM_010922]
A_51_P365964	-0,33	-4,00	0,0359	Tor1a	Mus musculus torsin family 1, member A (torsin A) (Tor1a), mRNA [NM_144884]
A_55_P1959600	-0,33	-3,78	0,0432	Tmem222	Mus musculus transmembrane protein 222 (Tmem222), transcript variant 1, mRNA [NM_025667]
A_55_P2084345	-0,33	-3,70	0,0467	Gm2099	Mus musculus adult female vagina cDNA, RIKEN full-length enriched library, clone:9930022017 product:Histone H3.3 (H3.A) (H3.B) (H3.3Q) homolog (Homo sapiens), full insert sequence. [AK137674]
A_51_P260490	-0,33	-3,68	0,0476	Ralbp1	Mus musculus ralA binding protein 1 (Ralbp1), transcript variant 1, mRNA [NM_009067]
A_55_P2000968	-0,33	-4,15	0,0315	Ppp2r3c	Mus musculus protein phosphatase 2, regulatory subunit B", gamma (Ppp2r3c), mRNA [NM_021529]
A_52_P72654	-0,33	-3,88	0,0396	Slc25a17	Mus musculus solute carrier family 25 (mitochondrial carrier, peroxisomal membrane protein), member 17 (Slc25a17), mRNA [NM_011399]
A_51_P203474	-0,33	-3,87	0,0397	Tsg101	Mus musculus tumor susceptibility gene 101 (Tsg101), mRNA [NM_021884]
A_51_P450021	-0,33	-4,48	0,0239	Higd2a	Mus musculus HIG1 domain family, member 2A (Higd2a), mRNA [NM_025933]
A_55_P1980543	-0,33	-4,28	0,0282	Ube2i	Mus musculus ubiquitin-conjugating enzyme E2I (Ube2i), transcript variant 2, mRNA [NM_001177609]
A_55_P1971329	-0,33	-3,78	0,0434	Lage3	Mus musculus L antigen family, member 3 (Lage3), mRNA [NM_025410]
A_52_P458000	-0,33	-4,38	0,0262	A1467606	Mus musculus expressed sequence A1467606 (A1467606), mRNA [NM_178901]
A_55_P2020831	-0,33	-4,48	0,0239	Tmem234	transmembrane protein 234 [Source:MGI Symbol;Acc:MGI:1924049] [ENSMUST00000152126]
A_55_P1987979	-0,33	-4,15	0,0315	Plrg1	Mus musculus pleiotropic regulator 1, PRL1 homolog (Arabidopsis) (Plrg1), mRNA [NM_016784]
A_66_P135742	-0,33	-3,70	0,0469	Wdr1	Mus musculus WD repeat domain 1 (Wdr1), mRNA [NM_011715]
A_55_P2138529	-0,33	-3,80	0,0425	Mrpl40	Mus musculus mitochondrial ribosomal protein L40 (Mrpl40), mRNA [NM_010922]
A_51_P136729	-0,33	-4,19	0,0304	Idh3g	Mus musculus isocitrate dehydrogenase 3 (NAD+), gamma (Idh3g), mRNA [NM_008323]
A_51_P297165	-0,34	-4,23	0,0296	Sf3a3	Mus musculus splicing factor 3a, subunit 3 (Sf3a3), mRNA [NM_029157]
A_55_P1968276	-0,34	-3,69	0,0473	Tomm22	Mus musculus translocase of outer mitochondrial membrane 22 homolog (yeast) (Tomm22), mRNA [NM_172609]
A_55_P2090406	-0,34	-3,80	0,0428	H13	Mus musculus histocompatibility 13 (H13), transcript variant 2, mRNA [NM_010376]
A_51_P442152	-0,34	-3,89	0,0393	Itfg1	Mus musculus integrin alpha FG-GAP repeat containing 1 (Itfg1), mRNA [NM_028007]
A_55_P2140423	-0,34	-4,32	0,0273	Arfp2	Mus musculus ADP-ribosylation factor interacting protein 2 (Arfp2), mRNA [NM_029802]
A_55_P2088103	-0,34	-3,75	0,0448	Ash2l	Mus musculus ash2 (absent, small, or homeotic)-like (Drosophila) (Ash2l), transcript variant 1, mRNA [NM_011791]
A_55_P2111419	-0,34	-3,86	0,0403	Eny2	Mus musculus enhancer of yellow 2 homolog (Drosophila) (Eny2), mRNA [NM_175009]
A_55_P2164778	-0,34	-3,73	0,0458	Ptdss1	Mus musculus phosphatidylserine synthase 1 (Ptdss1), mRNA [NM_008959]
A_55_P2028511	-0,34	-3,86	0,0402	Gm15466	PREDICTED: Mus musculus predicted gene 15466 (Gm15466), mRNA [XM_003085343]
A_51_P386539	-0,34	-3,72	0,0461	Rnf125	Mus musculus ring finger protein 125 (Rnf125), mRNA [NM_026301]
A_55_P2112330	-0,34	-4,68	0,0200	Anapc7	Mus musculus anaphase promoting complex subunit 7 (Anapc7), mRNA [NM_019805]
A_66_P103926	-0,34	-4,35	0,0268	Eif3m	Mus musculus eukaryotic translation initiation factor 3, subunit M (Eif3m), mRNA [NM_145380]
A_55_P1977008	-0,34	-3,70	0,0468	Gfi1	Mus musculus growth factor independent 1 (Gfi1), transcript variant 1, mRNA [NM_010278]

A_55_P2055682	-0,34	-3,77	0,0439	Atp5o	Mus musculus ATP synthase, H+ transporting, mitochondrial F1 complex, O subunit (Atp5o), mRNA [NM_138597]
A_51_P125446	-0,34	-3,93	0,0380	Lzic	Mus musculus leucine zipper and CTNNBIP1 domain containing (Lzic), mRNA [NM_026963]
A_55_P2096652	-0,34	-3,67	0,0479	Ccbl1	Mus musculus cysteine conjugate-beta lyase 1 (Ccbl1), mRNA [NM_172404]
A_52_P163928	-0,34	-3,73	0,0458	Poldip2	Mus musculus polymerase (DNA-directed), delta interacting protein 2 (Poldip2), mRNA [NM_026389]
A_51_P484753	-0,34	-3,77	0,0441	Tmem66	Mus musculus transmembrane protein 66 (Tmem66), mRNA [NM_026432]
A_51_P468329	-0,34	-3,74	0,0451	Psmb7	Mus musculus proteasome (prosome, macropain) subunit, beta type 7 (Psmb7), mRNA [NM_011187]
A_51_P181722	-0,34	-3,71	0,0465	Rbks	Mus musculus ribokinase (Rbks), mRNA [NM_153196]
A_55_P2064876	-0,35	-4,04	0,0345	Fam89b	Mus musculus family with sequence similarity 89, member B (Fam89b), transcript variant 1, mRNA [NM_181452]
A_51_P226417	-0,35	-3,91	0,0385	Rraga	Mus musculus Ras-related GTP binding A (Rraga), mRNA [NM_178376]
A_55_P2168628	-0,35	-3,73	0,0457	Sac3d1	Mus musculus SAC3 domain containing 1 (Sac3d1), mRNA [NM_133678]
A_55_P1957927	-0,35	-4,05	0,0342	Nono	Mus musculus non-POU-domain-containing, octamer binding protein (Nono), transcript variant 1, mRNA [NM_023144]
A_55_P1956195	-0,35	-3,95	0,0371	Gm10094	Mus musculus predicted gene 10094 (Gm10094), mRNA [NM_001142441]
A_51_P284466	-0,35	-3,92	0,0381	Tsc22d4	Mus musculus TSC22 domain family, member 4 (Tsc22d4), transcript variant 2, mRNA [NM_023910]
A_55_P1976805	-0,35	-4,27	0,0286	Isca2	Mus musculus iron-sulfur cluster assembly 2 homolog (S. cerevisiae) (Isca2), mRNA [NM_028863]
A_51_P213030	-0,35	-3,83	0,0412	Macro1	Mus musculus MACRO domain containing 1 (Macro1), mRNA [NM_134147]
A_66_P136372	-0,35	-3,88	0,0396	Mrpl9	Mus musculus mitochondrial ribosomal protein L9 (Mrpl9), mRNA [NM_030116]
A_51_P112677	-0,35	-3,83	0,0411	Mrpl50	Mus musculus mitochondrial ribosomal protein L50 (Mrpl50), mRNA [NM_178603]
A_55_P2131340	-0,35	-3,81	0,0422	Churc1	Mus musculus churchill domain containing 1 (Churc1), mRNA [NM_206534]
A_51_P130079	-0,35	-3,88	0,0396	Lrmp	Mus musculus lymphoid-restricted membrane protein (Lrmp), transcript variant 1, mRNA [NM_008511]
A_66_P134412	-0,35	-4,47	0,0242	Mettl25	Mus musculus methyltransferase like 25 (Mettl25), mRNA [NM_207522]
A_55_P1967720	-0,35	-4,16	0,0313	Polr2i	Mus musculus polymerase (RNA) II (DNA directed) polypeptide I (Polr2i), mRNA [NM_027259]
A_55_P2101910	-0,35	-3,80	0,0428	Rpl13a	Mus musculus ribosomal protein L13A (Rpl13a), mRNA [NM_009438]
A_55_P1991920	-0,35	-4,48	0,0240	Dhx32	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 32 (Dhx32), transcript variant 1, mRNA [NM_001286030]
A_65_P02543	-0,35	-3,69	0,0472	Srp72	Mus musculus signal recognition particle 72 (Srp72), mRNA [NM_025691]
A_55_P1978089	-0,35	-4,06	0,0340	Dcaf17	Mus musculus DDB1 and CUL4 associated factor 17 (Dcaf17), transcript variant 2, mRNA [NM_001165981]
A_55_P2007693	-0,35	-4,01	0,0356	Gm4120	PREDICTED: Mus musculus predicted gene 4120 (Gm4120), mRNA [XM_006515313]
A_51_P268343	-0,35	-3,90	0,0387	Aagab	Mus musculus alpha- and gamma-adaptin binding protein (Aagab), mRNA [NM_025857]
A_52_P428496	-0,35	-3,87	0,0399	Rhoa	Mus musculus ras homolog gene family, member A (Rhoa), mRNA [NM_016802]
A_51_P382253	-0,35	-3,99	0,0361	Rnf2	Mus musculus ring finger protein 2 (Rnf2), mRNA [NM_011277]
A_51_P190886	-0,35	-3,72	0,0460	Ankrd13a	Mus musculus ankyrin repeat domain 13a (Ankrd13a), mRNA [NM_026718]
A_51_P395111	-0,35	-4,57	0,0223	Nme3	Mus musculus NME/NM23 nucleoside diphosphate kinase 3 (Nme3), mRNA [NM_019730]
A_55_P1973723	-0,35	-3,74	0,0453	Etfdh	Mus musculus electron transferring flavoprotein, dehydrogenase (Etfdh), mRNA [NM_025794]
A_55_P1954001	-0,35	-4,05	0,0342	Snrpc	Mus musculus U1 small nuclear ribonucleoprotein C (Snrpc), mRNA [NM_011432]
A_55_P1968235	-0,36	-3,83	0,0412	Rab33b	Mus musculus RAB33B, member RAS oncogene family (Rab33b), mRNA [NM_016858]
A_55_P2115245	-0,36	-3,69	0,0474	Zfyve19	Mus musculus zinc finger, FYVE domain containing 19 (Zfyve19), transcript variant 1, mRNA [NM_028054]
A_51_P460710	-0,36	-3,68	0,0477	Tdrd3	Mus musculus tudor domain containing 3, mRNA (cDNA clone MGC:11761 IMAGE:3153274), complete cds. [BC005670]
A_55_P2015700	-0,36	-4,30	0,0279	Evi5l	ecotropic viral integration site 5 like [Source:MGI Symbol;Acc:MGI:2442167] [JENS:MUST00000176764]
A_55_P2152292	-0,36	-3,85	0,0405	Map2k2	Mus musculus mitogen-activated protein kinase kinase 2 (Map2k2), mRNA [NM_023138]
A_51_P357085	-0,36	-3,81	0,0420	Dctn6	Mus musculus dynactin 6 (Dctn6), mRNA [NM_011722]
A_51_P288103	-0,36	-4,09	0,0334	Psmd6	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 6 (Psmd6), mRNA [NM_025550]
A_55_P1986706	-0,36	-3,91	0,0385	Pih1d1	Mus musculus PIH1 domain containing 1 (Pih1d1), transcript variant 1, mRNA [NM_029406]
A_55_P2176430	-0,36	-3,64	0,0495	0610010K14 Rik	Mus musculus RIKEN cDNA 0610010K14 gene (0610010K14Rik), transcript variant 3, mRNA [NM_001177603]
A_55_P2056285	-0,36	-3,88	0,0395	Sf3b5	Mus musculus splicing factor 3b, subunit 5 (Sf3b5), mRNA [NM_175102]
A_51_P242733	-0,36	-4,16	0,0313	Tex261	Mus musculus testis expressed gene 261 (Tex261), mRNA [NM_009357]
A_51_P378825	-0,36	-3,64	0,0493	Actr8	Mus musculus ARP8 actin-related protein 8 (Actr8), mRNA [NM_027493]
A_51_P350214	-0,36	-4,84	0,0178	Amz2	Mus musculus archaelysin family metalloproteinase 2 (Amz2), transcript variant 1, mRNA [NM_025275]
A_52_P613498	-0,36	-3,71	0,0463	4833420G17 Rik	Mus musculus RIKEN cDNA 4833420G17 gene (4833420G17Rik), transcript variant 1, mRNA [NM_026127]



A_52_P463346	-0,36	-3,85	0,0405	Serinc3	Mus musculus serine incorporator 3 (Serinc3), mRNA [NM_012032]
A_65_P07561	-0,36	-4,70	0,0198	Tpd52l2	Mus musculus tumor protein D52-like 2 (Tpd52l2), transcript variant 3, mRNA [NM_001291200]
A_51_P387188	-0,36	-4,34	0,0270	Vrk3	Mus musculus vaccinia related kinase 3 (Vrk3), mRNA [NM_133945]
A_51_P126177	-0,36	-4,74	0,0192	Map1lc3b	Mus musculus microtubule-associated protein 1 light chain 3 beta (Map1lc3b), mRNA [NM_026160]
A_55_P1996643	-0,36	-3,64	0,0496	Polr2j	Mus musculus polymerase (RNA) II (DNA directed) polypeptide J (Polr2j), mRNA [NM_011293]
A_51_P518298	-0,36	-3,90	0,0387	Rnf187	Mus musculus ring finger protein 187 (Rnf187), mRNA [NM_022423]
A_55_P2149511	-0,36	-4,18	0,0308	Mff	Mus musculus mitochondrial fission factor (Mff), mRNA [NM_029409]
A_55_P2032267	-0,36	-3,89	0,0393	Gm10767	Mus musculus predicted gene 10767 (Gm10767), mRNA [NM_001177750]
A_66_P133928	-0,36	-3,76	0,0444	Fundc2	Mus musculus FUN14 domain containing 2 (Fundc2), mRNA [NM_026126]
A_55_P2185203	-0,36	-4,16	0,0314	Snrnp40	Mus musculus small nuclear ribonucleoprotein 40 (U5) (Snrnp40), mRNA [NM_025645]
A_55_P1957168	-0,36	-3,68	0,0476	Ube2s	Mus musculus ubiquitin-conjugating enzyme E2S (Ube2s), mRNA [NM_133777]
A_52_P472799	-0,36	-3,93	0,0379	Ecd	Mus musculus ecdysoneless homolog (Drosophila) (Ecd), mRNA [NM_027475]
A_51_P113722	-0,36	-3,90	0,0387	Fbxl14	Mus musculus F-box and leucine-rich repeat protein 14 (Fbxl14), mRNA [NM_133940]
A_51_P374305	-0,36	-3,71	0,0466	Rchy1	Mus musculus ring finger and CHY zinc finger domain containing 1 (Rchy1), transcript variant 1, mRNA [NM_026557]
A_51_P125050	-0,36	-3,91	0,0385	Wdr74	Mus musculus WD repeat domain 74 (Wdr74), mRNA [NM_134139]
A_51_P480499	-0,36	-3,79	0,0431	Emc8	Mus musculus ER membrane protein complex subunit 8 (Emc8), mRNA [NM_010926]
A_55_P2063594	-0,36	-4,34	0,0270	Gm5801	Mus musculus predicted pseudogene 5801 (Gm5801), non-coding RNA [NR_002889]
A_55_P1995074	-0,36	-3,91	0,0385	Ubal2	Mus musculus UBA-like domain containing 2 (Ubal2), mRNA [NM_176902]
A_51_P397564	-0,37	-3,90	0,0389	Snrnp40	Mus musculus small nuclear ribonucleoprotein 40 (U5) (Snrnp40), mRNA [NM_025645]
A_51_P484919	-0,37	-3,89	0,0391	Polrmt	Mus musculus polymerase (RNA) mitochondrial (DNA directed) (Polrmt), mRNA [NM_172551]
A_55_P1966998	-0,37	-4,34	0,0270	Arhgdib	Mus musculus Rho, GDP dissociation inhibitor (GDI) beta (Arhgdib), mRNA [NM_007486]
A_51_P475076	-0,37	-4,36	0,0267	Vbp1	Mus musculus von Hippel-Lindau binding protein 1 (Vbp1), mRNA [NM_011692]
A_55_P2099700	-0,37	-4,87	0,0175	Klc4	PREDICTED: Mus musculus kinesin light chain 4 (Klc4), transcript variant X2, mRNA [XM_006525043]
A_52_P242724	-0,37	-4,44	0,0248	Opa1	Mus musculus optic atrophy 1 (Opa1), transcript variant 1, mRNA [NM_001199177]
A_51_P251892	-0,37	-3,90	0,0387	Magoh	Mus musculus mago-nashi homolog, proliferation-associated (Drosophila) (Magoh), mRNA [NM_001282737]
A_55_P1972852	-0,37	-4,29	0,0280	Mcrs1	Mus musculus microspherule protein 1 (Mcrs1), transcript variant 1, mRNA [NM_016766]
A_51_P151775	-0,37	-3,89	0,0391	Mief1	Mus musculus mitochondrial elongation factor 1 (Mief1), mRNA [NM_178719]
A_55_P2068391	-0,37	-4,03	0,0347	Gm19924	PREDICTED: Mus musculus predicted gene, 19924 (Gm19924), misc_RNA [XR_381329]
A_51_P372702	-0,37	-3,81	0,0423	Il16	Mus musculus interleukin 16 (Il16), mRNA [NM_010551]
A_51_P144581	-0,37	-4,10	0,0331	Pgrmc1	Mus musculus progesterone receptor membrane component 1 (Pgrmc1), mRNA [NM_016783]
A_55_P2065369	-0,37	-4,07	0,0338	H3f3a	Mus musculus H3 histone, family 3A (H3f3a), mRNA [NM_008210]
A_51_P353592	-0,37	-3,74	0,0450	Comm4	Mus musculus COMM domain containing 4 (Comm4), mRNA [NM_025417]
A_51_P123795	-0,37	-4,40	0,0256	Zfp637	Mus musculus zinc finger protein 637 (Zfp637), mRNA [NM_177684]
A_52_P327615	-0,37	-4,48	0,0239	Rab18	Mus musculus RAB18, member RAS oncogene family (Rab18), transcript variant 2, mRNA [NM_181070]
A_52_P598634	-0,37	-4,26	0,0289	1190007I07Rik	Mus musculus RIKEN cDNA 1190007I07 gene (1190007I07Rik), transcript variant 1, mRNA [NM_001135567]
A_51_P107020	-0,37	-4,08	0,0335	Kif5a	Mus musculus kinesin family member 5A (Kif5a), transcript variant 1, mRNA [NM_001039000]
A_55_P2085127	-0,37	-4,00	0,0359	Fam103a1	Mus musculus family with sequence similarity 103, member A1 (Fam103a1), mRNA [NM_025997]
A_55_P1980125	-0,37	-3,93	0,0380	Srsf3	Mus musculus serine/arginine-rich splicing factor 3 (Srsf3), transcript variant 1, mRNA [NM_013663]
A_51_P443618	-0,37	-3,67	0,0479	0610011F06Rik	Mus musculus RIKEN cDNA 0610011F06 gene (0610011F06Rik), mRNA [NM_026686]
A_51_P171965	-0,37	-3,63	0,0499	1110058L19Rik	Mus musculus RIKEN cDNA 1110058L19 gene (1110058L19Rik), mRNA [NM_026503]
A_51_P279465	-0,37	-4,49	0,0237	Farsa	Mus musculus phenylalanyl-tRNA synthetase, alpha subunit (Farsa), mRNA [NM_025648]
A_51_P192344	-0,37	-4,13	0,0321	Ash2l	Mus musculus ash2 (absent, small, or homeotic)-like (Drosophila) (Ash2l), transcript variant 1, mRNA [NM_011791]
A_52_P339054	-0,37	-4,27	0,0287	Nap1l4	Mus musculus nucleosome assembly protein 1-like 4 (Nap1l4), transcript variant 2, mRNA [NM_008672]
A_55_P2078266	-0,37	-4,08	0,0336	H3f3a	Mus musculus H3 histone, family 3A (H3f3a), mRNA [NM_008210]
A_52_P572447	-0,37	-3,79	0,0429	Agpat5	Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon) (Agpat5), mRNA [NM_026792]
A_51_P239113	-0,37	-4,40	0,0256	Zfp35	Mus musculus zinc finger protein 35 (Zfp35), mRNA [NM_011755]
A_51_P253633	-0,37	-3,75	0,0448	Mrps9	Mus musculus mitochondrial ribosomal protein S9 (Mrps9), mRNA [NM_023514]

A_55_P2007389	-0,38	-4,17	0,0309	Fam189b	Mus musculus family with sequence similarity 189, member B (Fam189b), mRNA [NM_001014995]
A_52_P618187	-0,38	-4,45	0,0246	Mrs2	Mus musculus MRS2 magnesium homeostasis factor homolog (S. cerevisiae) (Mrs2), mRNA [NM_001013389]
A_51_P389531	-0,38	-4,03	0,0348	Prmt1	Mus musculus protein arginine N-methyltransferase 1 (Prmt1), transcript variant 1, mRNA [NM_019830]
A_51_P426458	-0,38	-4,10	0,0331	Ube2d2a	Mus musculus ubiquitin-conjugating enzyme E2D 2A (Ube2d2a), mRNA [NM_019912]
A_55_P2133716	-0,38	-4,03	0,0350	Tax1bp3	Mus musculus Tax1 (human T cell leukemia virus type I) binding protein 3 (Tax1bp3), mRNA [NM_029564]
A_51_P319732	-0,38	-3,70	0,0468	Mrps31	Mus musculus mitochondrial ribosomal protein S31 (Mrps31), mRNA [NM_020560]
A_66_P104390	-0,38	-3,71	0,0463	Arl3	Mus musculus ADP-ribosylation factor-like 3 (Arl3), mRNA [NM_019718]
A_55_P2003133	-0,38	-4,03	0,0350	Ngrn	Mus musculus neugrin, neurite outgrowth associated (Ngrn), transcript variant 2, mRNA [NM_031375]
A_51_P121412	-0,38	-4,51	0,0234	Slc35a4	Mus musculus solute carrier family 35, member A4 (Slc35a4), transcript variant 1, mRNA [NM_026404]
A_51_P163106	-0,38	-3,90	0,0387	Bdh1	Mus musculus 3-hydroxybutyrate dehydrogenase, type 1 (Bdh1), transcript variant 1, mRNA [NM_175177]
A_55_P2106063	-0,38	-4,33	0,0272	Ndufs2	NADH dehydrogenase (ubiquinone) Fe-S protein 2 [Source:MGI Symbol;Acc:MGI:2385112] [ENSMUST00000136976]
A_52_P257547	-0,38	-3,70	0,0469	0610009020 Rik	Mus musculus RIKEN cDNA 0610009020 gene (0610009020Rik), mRNA [NM_024179]
A_55_P2158319	-0,38	-3,86	0,0401	Ntan1	Mus musculus N-terminal Asn amidase (Ntan1), mRNA [NM_010946]
A_55_P2043287	-0,38	-3,93	0,0377	Aes	Mus musculus amino-terminal enhancer of split (Aes), transcript variant 1, mRNA [NM_010347]
A_51_P175580	-0,38	-3,83	0,0412	Trp53inp1	Mus musculus transformation related protein 53 inducible nuclear protein 1 (Trp53inp1), transcript variant 1, mRNA [NM_021897]
A_55_P2104597	-0,38	-4,26	0,0287	Kctd9	Mus musculus potassium channel tetramerisation domain containing 9 (Kctd9), transcript variant 3, mRNA [NM_001285933]
A_55_P2077826	-0,38	-4,88	0,0173	Ppp1cc	Mus musculus protein phosphatase 1, catalytic subunit, gamma isoform (Ppp1cc), mRNA [NM_013636]
A_55_P2043723	-0,38	-4,01	0,0356	Rabac1	Mus musculus Rab acceptor 1 (prenylated) (Rabac1), mRNA [NM_010261]
A_51_P375406	-0,38	-4,25	0,0290	Rprd1a	Mus musculus regulation of nuclear pre-mRNA domain containing 1A (Rprd1a), mRNA [NM_144861]
A_51_P260871	-0,38	-4,67	0,0202	Sdhb	Mus musculus succinate dehydrogenase complex, subunit D, integral membrane protein (Sdhb), mRNA [NM_025848]
A_55_P2027587	-0,38	-3,92	0,0382	Gm3258	Mus musculus predicted gene 3258 (Gm3258), mRNA [NM_011509]
A_51_P258620	-0,38	-3,84	0,0408	Rab4b	Mus musculus RAB4B, member RAS oncogene family (Rab4b), mRNA [NM_029391]
A_51_P368543	-0,38	-4,79	0,0185	Abhd8	Mus musculus abhydrolase domain containing 8 (Abhd8), mRNA [NM_022419]
A_55_P2043682	-0,38	-4,19	0,0306	Uba1	Mus musculus ubiquitin associated domain containing 1, mRNA (cDNA clone MGC:30259 IMAGE:3662474), complete cds. [BC021811]
A_55_P1999197	-0,38	-4,01	0,0355	Clasp1	Mus musculus CLIP associating protein 1 (Clasp1), transcript variant 1, mRNA [NM_001081276]
A_51_P108489	-0,38	-4,47	0,0241	Gtl3	Mus musculus gene trap locus 3 (Gtl3), mRNA [NM_008187]
A_55_P1954212	-0,38	-4,25	0,0291	Snrpd2	Mus musculus small nuclear ribonucleoprotein D2 (Snrpd2), mRNA [NM_026943]
A_55_P1955970	-0,38	-3,78	0,0435	Cbfa2t2	Mus musculus core-binding factor, runt domain, alpha subunit 2, translocated to, 2 (human) (Cbfa2t2), transcript variant 3, mRNA [NM_001285446]
A_51_P466148	-0,38	-3,72	0,0459	Bckdha	Mus musculus branched chain ketoacid dehydrogenase E1, alpha polypeptide (Bckdha), mRNA [NM_007533]
A_55_P1957624	-0,38	-3,79	0,0430	Insig2	Mus musculus insulin induced gene 2 (Insig2), transcript variant 4, mRNA [NM_001271532]
A_51_P206585	-0,38	-3,65	0,0491	Runx1	Mus musculus runt related transcription factor 1 (Runx1), transcript variant 4, mRNA [NM_009821]
A_51_P372473	-0,38	-5,11	0,0144	Auh	Mus musculus AU RNA binding protein/enoyl-coenzyme A hydratase (Auh), mRNA [NM_016709]
A_55_P1973334	-0,38	-4,76	0,0188	Mapk1	Mus musculus mitogen-activated protein kinase 1 (Mapk1), transcript variant 1, mRNA [NM_011949]
A_55_P1981964	-0,38	-4,25	0,0292	Tnfrsf13b	tumor necrosis factor receptor superfamily, member 13b [Source:MGI Symbol;Acc:MGI:1889411] [ENSMUST0000010286]
A_55_P1962092	-0,38	-4,24	0,0292	Mpc1	Mus musculus mitochondrial pyruvate carrier 1 (Mpc1), mRNA [NM_018819]
A_51_P294095	-0,39	-3,86	0,0401	Prkar1a	Mus musculus protein kinase, cAMP dependent regulatory, type I, alpha (Prkar1a), mRNA [NM_021880]
A_51_P407004	-0,39	-3,88	0,0396	Prkrip1	Mus musculus Prkr interacting protein 1 (IL11 inducible) (Prkrip1), mRNA [NM_025774]
A_55_P1969625	-0,39	-3,96	0,0368	HnrnpR	Mus musculus heterogeneous nuclear ribonucleoprotein R (HnrnpR), transcript variant 1, mRNA [NM_028871]
A_51_P177583	-0,39	-4,22	0,0298	Puf60	Mus musculus poly-U binding splicing factor 60 (Puf60), transcript variant 1, mRNA [NM_028364]
A_51_P432520	-0,39	-4,00	0,0359	Wrnip1	Mus musculus Werner helicase interacting protein 1 (Wrnip1), mRNA [NM_030215]
A_55_P2130666	-0,39	-4,35	0,0267	Armcl1	Mus musculus armadillo repeat containing 1 (Armcl1), mRNA [NM_028840]
A_55_P2097126	-0,39	-4,36	0,0265	Cnep1r1	Mus musculus CTD nuclear envelope phosphatase 1 regulatory subunit 1 (Cnep1r1), mRNA [NM_029074]
A_55_P2030506	-0,39	-3,78	0,0435	Rp9	Mus musculus retinitis pigmentosa 9 (human) (Rp9), mRNA [NM_018739]
A_52_P498985	-0,39	-3,77	0,0438	Zfp512	Mus musculus zinc finger protein 512 (Zfp512), mRNA [NM_172993]
A_55_P1986053	-0,39	-3,94	0,0374	Pcnx	Mus musculus pecanex homolog (Drosophila) (Pcnx), mRNA [NM_018814]

A_52_P407796	-0,39	-3,71	0,0465	Mdh1	Mus musculus malate dehydrogenase 1, NAD (soluble) (Mdh1), mRNA [NM_008618]
A_52_P336825	-0,39	-3,99	0,0361	Matr3	Mus musculus matrin 3 (Matr3), mRNA [NM_010771]
A_55_P2078645	-0,39	-3,80	0,0425	Mettl5	Mus musculus methyltransferase like 5 (Mettl5), transcript variant 1, mRNA [NM_029280]
A_66_P105843	-0,39	-4,60	0,0216	Cyth2	Mus musculus cytohesin 2 (Cyth2), transcript variant 1, mRNA [NM_011181]
A_55_P2068154	-0,39	-4,07	0,0339	Anapc15	Mus musculus anaphase promoting complex C subunit 15 (Anapc15), transcript variant 3, mRNA [NM_027532]
A_55_P1962035	-0,39	-3,66	0,0486	Coa5	Mus musculus cytochrome C oxidase assembly factor 5 (Coa5), mRNA [NM_198006]
A_55_P2164909	-0,39	-4,19	0,0306	D10Jhu81e	Mus musculus DNA segment, Chr 10, Johns Hopkins University 81 expressed (D10Jhu81e), mRNA [NM_138601]
A_51_P479321	-0,39	-3,94	0,0376	Acsc1	Mus musculus acyl-CoA synthetase short-chain family member 1 (Acsc1), mRNA [NM_080575]
A_55_P2018387	-0,39	-3,92	0,0382	Zkscan17	Mus musculus zinc finger with KRAB and SCAN domains 17 (Zkscan17), transcript variant 1, mRNA [NM_172941]
A_51_P471779	-0,39	-3,97	0,0367	Phf5a	Mus musculus PHD finger protein 5A (Phf5a), mRNA [NM_026737]
A_51_P362903	-0,39	-3,80	0,0425	Mrps22	Mus musculus mitochondrial ribosomal protein S22 (Mrps22), mRNA [NM_025485]
A_51_P490171	-0,39	-5,09	0,0146	Nubp2	Mus musculus nucleotide binding protein 2 (Nubp2), mRNA [NM_011956]
A_52_P430934	-0,39	-3,91	0,0384	Dcun1d1	Mus musculus DCN1, defective in cullin neddylation 1, domain containing 1 (S. cerevisiae) (Dcun1d1), transcript variant 3, mRNA [NM_033623]
A_51_P329370	-0,39	-3,89	0,0391	Snrnp25	Mus musculus small nuclear ribonucleoprotein 25 (U11/U12) (Snrnp25), mRNA [NM_030093]
A_52_P457411	-0,39	-4,99	0,0156	Ubl5	Mus musculus ubiquitin-like 5 (Ubl5), mRNA [NM_025401]
A_55_P2095933	-0,39	-4,77	0,0187	Zranb1	Mus musculus zinc finger, RAN-binding domain containing 1 (Zranb1), mRNA [NM_207302]
A_55_P2143336	-0,39	-4,37	0,0264	Rpp21	Mus musculus ribonuclease P 21 subunit (Rpp21), mRNA [NM_026308]
A_55_P2015044	-0,39	-4,43	0,0250	Aph1a	Mus musculus anterior pharynx defective 1a homolog (C. elegans) (Aph1a), transcript variant 2, mRNA [NM_146134]
A_51_P314339	-0,39	-4,07	0,0339	Chtop	Mus musculus chromatin target of PRMT1 (Chtop), mRNA [NM_023215]
A_55_P2133225	-0,39	-4,22	0,0299	Mmgt2	Mus musculus membrane magnesium transporter 2 (Mmgt2), mRNA [NM_175002]
A_52_P410765	-0,39	-3,98	0,0364	Sema7a	Mus musculus sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (Sema7a), mRNA [NM_011352]
A_51_P337543	-0,39	-3,83	0,0411	Glce	Mus musculus glucuronyl C5-epimerase (Glce), mRNA [NM_033320]
A_55_P2042953	-0,39	-4,00	0,0360	Acd	Mus musculus adrenocortical dysplasia (Acd), mRNA [NM_001012638]
A_65_P15689	-0,39	-3,84	0,0409	Mut	Mus musculus methylmalonyl-Coenzyme A mutase (Mut), mRNA [NM_008650]
A_51_P428364	-0,39	-4,04	0,0346	Psm6	Mus musculus proteasome (prosome, macropain) subunit, alpha type 6 (Psm6), mRNA [NM_011968]
A_66_P121196	-0,39	-3,89	0,0391	Katnb1	Mus musculus katanin p80 (WD40-containing) subunit B 1 (Katnb1), mRNA [NM_028805]
A_52_P239292	-0,39	-4,20	0,0303	AI597479	Mus musculus expressed sequence AI597479 (AI597479), mRNA [NM_133818]
A_51_P158772	-0,39	-4,25	0,0289	Elof1	Mus musculus elongation factor 1 homolog (ELF1, S. cerevisiae) (Elof1), mRNA [NM_170777]
A_55_P2054739	-0,39	-4,08	0,0336	Polr3c	Mus musculus polymerase (RNA) III (DNA directed) polypeptide C (Polr3c), mRNA [NM_028925]
A_55_P2023772	-0,39	-3,74	0,0451	Fam107b	Mus musculus family with sequence similarity 107, member B (Fam107b), mRNA [NM_025626]
A_51_P194479	-0,39	-3,72	0,0458	1110059G10 Rik	Mus musculus RIKEN cDNA 1110059G10 gene (1110059G10Rik), mRNA [NM_025419]
A_55_P2060253	-0,39	-4,70	0,0198	Gm12657	Mus musculus predicted gene 12657 (Gm12657), mRNA [NM_001081019]
A_55_P2142146	-0,39	-3,78	0,0435	Glul	Mus musculus glutamate-ammonia ligase (glutamine synthetase) (Glul), mRNA [NM_008131]
A_55_P2035454	-0,39	-4,28	0,0282	Oaz1	Mus musculus ornithine decarboxylase antizyme 1 (Oaz1), mRNA [NM_008753]
A_55_P1985464	-0,39	-4,27	0,0285	Gm12271	PREDICTED: Mus musculus predicted gene 12271 (Gm12271), mRNA [XM_890719]
A_55_P1963718	-0,39	-3,87	0,0398	Lias	Mus musculus lipoic acid synthetase (Lias), mRNA [NM_024471]
A_51_P212183	-0,39	-4,24	0,0293	Tmem261	Mus musculus transmembrane protein 261 (Tmem261), mRNA [NM_025849]
A_55_P2070179	-0,39	-3,79	0,0430	Ing4	Mus musculus inhibitor of growth family, member 4 (Ing4), mRNA [NM_133345]
A_51_P151968	-0,40	-3,96	0,0369	Eif2b5	Mus musculus eukaryotic translation initiation factor 2B, subunit 5 epsilon (Eif2b5), mRNA [NM_172265]
A_51_P115817	-0,40	-4,07	0,0339	Ralgps2	Mus musculus Ral GEF with PH domain and SH3 binding motif 2 (Ralgps2), transcript variant 2, mRNA [NM_023884]
A_55_P2140288	-0,40	-3,84	0,0408	Phka2	Mus musculus phosphorylase kinase alpha 2 (Phka2), transcript variant 1, mRNA [NM_172783]
A_55_P1963712	-0,40	-3,92	0,0381	Cyb5b	Mus musculus cytochrome b5 type B (Cyb5b), mRNA [NM_025558]
A_52_P163795	-0,40	-4,04	0,0345	Tubb5	Mus musculus tubulin, beta 5 class I (Tubb5), mRNA [NM_011655]
A_52_P585831	-0,40	-4,10	0,0332	Bap1	Mus musculus Brca1 associated protein 1 (Bap1), mRNA [NM_027088]
A_55_P1957967	-0,40	-4,18	0,0307	Dhx32	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 32 (Dhx32), transcript variant 1, mRNA [NM_001286030]
A_52_P358076	-0,40	-5,23	0,0132	Ppp2ca	Mus musculus protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform (Ppp2ca), mRNA [NM_019411]



A_51_P397925	-0,40	-4,22	0,0297	Smap2	Mus musculus small ArfGAP 2 (Smap2), mRNA [NM_133716]
A_65_P01415	-0,40	-3,83	0,0411	Kremen1	Mus musculus kringle containing transmembrane protein 1 (Kremen1), mRNA [NM_032396]
A_52_P598714	-0,40	-3,97	0,0366	Afg3l1	Mus musculus AFG3(ATPase family gene 3)-like 1 (yeast) (Afg3l1), transcript variant 1, mRNA [NM_054070]
A_55_P2136862	-0,40	-4,63	0,0210	Dpy30	Mus musculus dpy-30 homolog (C. elegans) (Dpy30), transcript variant 4, mRNA [NM_001146224]
A_51_P394339	-0,40	-4,04	0,0346	Eif2b1	Mus musculus eukaryotic translation initiation factor 2B, subunit 1 (alpha) (Eif2b1), mRNA [NM_145371]
A_55_P2006634	-0,40	-3,72	0,0458	Map4k5	Mus musculus mitogen-activated protein kinase kinase kinase 5 (Map4k5), mRNA [NM_201519]
A_55_P2017640	-0,40	-3,77	0,0440	Phf7	Mus musculus PHD finger protein 7 (Phf7), mRNA [NM_027949]
A_55_P2065501	-0,40	-4,22	0,0299	Rnf7	Mus musculus ring finger protein 7 (Rnf7), mRNA [NM_011279]
A_55_P2172299	-0,40	-4,24	0,0293	Timm17b	Mus musculus translocase of inner mitochondrial membrane 17b, mRNA (cDNA clone MGC:6564 IMAGE:281177), complete cds. [BC008275]
A_55_P2005873	-0,40	-3,69	0,0472	Zfp280d	Mus musculus zinc finger protein 280D (Zfp280d), mRNA [NM_146224]
A_66_P125401	-0,40	-3,94	0,0376	Chm	Mus musculus B6-derived CD11 +ve dendritic cells cDNA, RIKEN full-length enriched library, clone:F730310F21 product:choroideremia, full insert sequence. [AK171558]
A_55_P1992045	-0,40	-4,11	0,0328	Msi2	Mus musculus musashi RNA-binding protein 2 (Msi2), transcript variant 1, mRNA [NM_054043]
A_52_P478256	-0,40	-4,21	0,0299	Samm50	Mus musculus sorting and assembly machinery component 50 homolog (S. cerevisiae) (Samm50), mRNA [NM_178614]
A_51_P162471	-0,40	-4,51	0,0235	Dnajc9	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 9 (Dnajc9), mRNA [NM_134081]
A_51_P307644	-0,40	-5,10	0,0145	Gtf3a	Mus musculus general transcription factor III A (Gtf3a), mRNA [NM_025652]
A_55_P2166745	-0,40	-4,20	0,0303	Sp3os	Mus musculus trans-acting transcription factor 3, opposite strand (Sp3os), long non-coding RNA [NR_045269]
A_55_P1971594	-0,40	-3,96	0,0369	Pqbp1	Mus musculus polyglutamine binding protein 1 (Pqbp1), transcript variant 1, mRNA [NM_019478]
A_66_P103477	-0,40	-3,84	0,0409	AU019823	Mus musculus expressed sequence AU019823 (AU019823), transcript variant 1, mRNA [NM_001134902]
A_52_P231737	-0,40	-4,36	0,0265	Actl6a	Mus musculus actin-like 6A (Actl6a), mRNA [NM_019673]
A_52_P623751	-0,40	-4,15	0,0315	Fem1b	Mus musculus feminization 1 homolog b (C. elegans) (Fem1b), mRNA [NM_010193]
A_51_P298486	-0,40	-5,00	0,0155	Cog6	Mus musculus component of oligomeric golgi complex 6 (Cog6), mRNA [NM_026225]
A_66_P108815	-0,40	-3,91	0,0385	Pgls	Mus musculus 6-phosphogluconolactonase (Pgls), mRNA [NM_025396]
A_66_P136099	-0,40	-3,68	0,0475	Coasy	Mus musculus Coenzyme A synthase (Coasy), mRNA [NM_027896]
A_55_P1974189	-0,40	-4,09	0,0335	Ptges	Mus musculus prostaglandin E synthase (Ptges), mRNA [NM_022415]
A_52_P17112	-0,40	-4,08	0,0335	Znrf1	Mus musculus zinc and ring finger 1 (Znrf1), transcript variant 1, mRNA [NM_133206]
A_52_P636343	-0,40	-3,99	0,0361	Wipi2	Mus musculus WD repeat domain, phosphoinositide interacting 2 (Wipi2), mRNA [NM_178398]
A_55_P2085716	-0,40	-4,30	0,0279	Atg12	Mus musculus autophagy related 12 (Atg12), mRNA [NM_026217]
A_55_P2171493	-0,40	-4,31	0,0277	BC030867	Mus musculus cDNA sequence BC030867 (BC030867), mRNA [NM_153544]
A_52_P526265	-0,40	-3,84	0,0408	Wdr73	Mus musculus WD repeat domain 73 (Wdr73), transcript variant 1, mRNA [NM_028026]
A_51_P495242	-0,40	-3,89	0,0391	Lat	Mus musculus linker for activation of T cells (Lat), mRNA [NM_010689]
A_51_P114854	-0,40	-4,69	0,0199	Clns1a	Mus musculus chloride channel, nucleotide-sensitive, 1A (Clns1a), mRNA [NM_023671]
A_55_P2134979	-0,41	-3,68	0,0475	Gm6115	PREDICTED: Mus musculus predicted gene 6115 (Gm6115), mRNA [XM_006543113]
A_51_P490348	-0,41	-3,71	0,0463	1110059E24 Rik	Mus musculus RIKEN cDNA 1110059E24 gene (1110059E24Rik), mRNA [NM_025423]
A_51_P208580	-0,41	-5,39	0,0114	Gltscr2	Mus musculus glioma tumor suppressor candidate region gene 2 (Gltscr2), mRNA [NM_133831]
A_52_P5652	-0,41	-4,45	0,0245	Sae1	Mus musculus SUMO1 activating enzyme subunit 1 (Sae1), transcript variant 1, mRNA [NM_019748]
A_55_P2019964	-0,41	-4,51	0,0235	Lanc1	Mus musculus LanC (bacterial lantibiotic synthetase component C)-like 1 (Lanc1), transcript variant 1, mRNA [NM_001190985]
A_51_P210474	-0,41	-4,20	0,0302	Mrpl18	Mus musculus mitochondrial ribosomal protein L18 (Mrpl18), mRNA [NM_026310]
A_51_P491470	-0,41	-4,13	0,0321	Ddx47	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 47 (Ddx47), mRNA [NM_026360]
A_55_P2023181	-0,41	-3,74	0,0451	Lsm2	Mus musculus LSM2 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm2), transcript variant 3, mRNA [NM_001204273]
A_66_P136788	-0,41	-3,97	0,0366	Ubal2	Mus musculus UBA-like domain containing 2 (Ubal2), mRNA [NM_176902]
A_51_P270899	-0,41	-4,30	0,0280	Zfp61	Mus musculus zinc finger protein 61 (Zfp61), mRNA [NM_009561]
A_51_P320481	-0,41	-4,23	0,0295	Mcee	Mus musculus methylmalonyl CoA epimerase (Mcee), mRNA [NM_028626]
A_51_P340947	-0,41	-3,91	0,0385	Selo	Mus musculus selenoprotein O (Selo), mRNA [NM_027905]
A_51_P462746	-0,41	-3,66	0,0485	Tex10	Mus musculus testis expressed gene 10 (Tex10), mRNA [NM_172304]
A_52_P123400	-0,41	-4,61	0,0214	Dnaaf2	Mus musculus dynein, axonemal assembly factor 2 (Dnaaf2), mRNA [NM_027269]
A_51_P398235	-0,41	-3,68	0,0477	Dnajc11	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 11 (Dnajc11), mRNA [NM_172704]

A_51_P184910	-0,41	-4,35	0,0269	Phpt1	Mus musculus phosphohistidine phosphatase 1 (Phpt1), mRNA [NM_029293]
A_51_P350048	-0,41	-4,61	0,0215	Gstt2	Mus musculus glutathione S-transferase, theta 2 (Gstt2), mRNA [NM_010361]
A_55_P2050799	-0,41	-4,57	0,0222	Nup35	Mus musculus nucleoporin 35 (Nup35), transcript variant 2, mRNA [NM_001190179]
A_51_P517430	-0,41	-3,68	0,0477	Cd1d1	Mus musculus CD1d1 antigen (Cd1d1), mRNA [NM_007639]
A_52_P159885	-0,41	-4,18	0,0308	Ddx49	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 49 (Ddx49), mRNA [NM_001024922]
A_51_P502764	-0,41	-4,11	0,0328	Hdac10	Mus musculus histone deacetylase 10 (Hdac10), transcript variant 1, mRNA [NM_199198]
A_51_P150521	-0,41	-5,13	0,0141	Mgat2	Mus musculus mannoside acetylglucosaminyltransferase 2 (Mgat2), mRNA [NM_146035]
A_55_P2034003	-0,41	-3,65	0,0489	Gtf3c1	Mus musculus general transcription factor III C 1 (Gtf3c1), mRNA [NM_207239]
A_52_P57526	-0,41	-4,56	0,0224	Sin3b	Mus musculus transcriptional regulator, SIN3B (yeast) (Sin3b), transcript variant 2, mRNA [NM_00113248]
A_52_P219966	-0,41	-3,74	0,0451	Spg21	Mus musculus spastic paraplegia 21 homolog (human) (Spg21), mRNA [NM_138584]
A_51_P480881	-0,41	-5,22	0,0132	Thap11	Mus musculus THAP domain containing 11 (Thap11), mRNA [NM_021513]
A_55_P1967618	-0,41	-4,41	0,0256	Med16	Mus musculus mediator complex subunit 16 (Med16), transcript variant 1, mRNA [NM_198107]
A_66_P128313	-0,41	-3,98	0,0364	Mtmr2	Mus musculus myotubularin related protein 2 (Mtmr2), transcript variant 1, mRNA [NM_023858]
A_66_P118195	-0,41	-4,95	0,0162	Ciao1	Mus musculus cytosolic iron-sulfur protein assembly 1 (Ciao1), mRNA [NM_025296]
A_51_P283649	-0,41	-3,99	0,0361	Brat1	Mus musculus BRCA1-associated ATM activator 1 (Brat1), transcript variant 3, mRNA [NM_001276287]
A_51_P327121	-0,41	-4,26	0,0288	Was	Mus musculus Wiskott-Aldrich syndrome homolog (human) (Was), mRNA [NM_009515]
A_52_P4698	-0,41	-3,99	0,0361	Rfwd3	Mus musculus ring finger and WD repeat domain 3 (Rfwd3), mRNA [NM_146218]
A_51_P135004	-0,41	-4,66	0,0205	Zfp212	Mus musculus Zinc finger protein 212 (Zfp212), transcript variant 1, mRNA [NM_145576]
A_51_P242076	-0,41	-3,85	0,0407	Ubr7	Mus musculus ubiquitin protein ligase E3 component n-recognin 7 (putative) (Ubr7), mRNA [NM_025666]
A_51_P390276	-0,41	-4,08	0,0337	Cwc25	Mus musculus CWC25 spliceosome-associated protein homolog (S. cerevisiae) (Cwc25), mRNA [NM_026186]
A_51_P140368	-0,41	-4,05	0,0342	Cmc2	Mus musculus COX assembly mitochondrial protein 2 (Cmc2), mRNA [NM_026844]
A_55_P1994913	-0,41	-4,70	0,0197	Ppp2cb	Mus musculus protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform (Ppp2cb), mRNA [NM_017374]
A_55_P2069350	-0,41	-4,68	0,0200	Psph	Mus musculus phosphoserine phosphatase (Psph), mRNA [NM_133900]
A_55_P1984113	-0,41	-4,38	0,0262	Nup62	Mus musculus nucleoporin 62 (Nup62), mRNA [NM_053074]
A_51_P216922	-0,41	-3,98	0,0363	Ddx59	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 59 (Ddx59), mRNA [NM_026500]
A_66_P103490	-0,42	-4,27	0,0285	Srsf1	Mus musculus serine/arginine-rich splicing factor 1 (Srsf1), transcript variant 2, mRNA [NM_001078167]
A_51_P224468	-0,42	-3,70	0,0468	9430016H08 Rik	Mus musculus RIKEN cDNA 9430016H08 gene (9430016H08Rik), mRNA [NM_001081181]
A_51_P342082	-0,42	-4,74	0,0192	Cnpy2	Mus musculus canopy 2 homolog (zebrafish) (Cnpy2), mRNA [NM_019953]
A_51_P370286	-0,42	-4,47	0,0241	Med24	Mus musculus mediator complex subunit 24 (Med24), mRNA [NM_011869]
A_52_P579876	-0,42	-4,10	0,0331	Suds3	Mus musculus suppressor of defective silencing 3 homolog (S. cerevisiae) (Suds3), transcript variant 1, mRNA [NM_178622]
A_51_P193296	-0,42	-4,10	0,0331	lqcf1	Mus musculus IQ motif containing F1 (lqcf1), transcript variant 1, mRNA [NM_028843]
A_51_P365409	-0,42	-3,70	0,0471	Rpsud4	Mus musculus RNA pseudouridylate synthase domain containing 4 (Rpsud4), mRNA [NM_028040]
A_55_P2067777	-0,42	-5,01	0,0154	2410089E03 Rik	Mus musculus RIKEN cDNA 2410089E03 gene (2410089E03Rik), mRNA [NM_001162906]
A_55_P1996504	-0,42	-4,12	0,0324	Abcg2	Mus musculus ATP-binding cassette, sub-family G (WHITE), member 2 (Abcg2), mRNA [NM_011920]
A_51_P391926	-0,42	-5,05	0,0149	Ubxn6	Mus musculus UBX domain protein 6 (Ubxn6), mRNA [NM_024432]
A_52_P338110	-0,42	-3,88	0,0394	Chmp1b	Mus musculus charged multivesicular body protein 1B (Chmp1b), mRNA [NM_024190]
A_55_P2436715	-0,42	-4,19	0,0306	Paics	Mus musculus phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoribosylaminoimidazole, succinocarboxamide synthetase (Paics), mRNA [NM_025939]
A_51_P126525	-0,42	-4,01	0,0357	D230025D16 Rik	Mus musculus RIKEN cDNA D230025D16 gene (D230025D16Rik), mRNA [NM_145604]
A_52_P484838	-0,42	-3,74	0,0450	Rfxank	Mus musculus regulatory factor X-associated ankyrin-containing protein (Rfxank), transcript variant 1, mRNA [NM_011266]
A_51_P487813	-0,42	-3,72	0,0459	Lxn	Mus musculus latexin (Lxn), mRNA [NM_016753]
A_51_P206655	-0,42	-3,99	0,0361	Lsm1	Mus musculus LSM1 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm1), mRNA [NM_026032]
A_51_P199866	-0,42	-4,96	0,0161	Pin1	Mus musculus protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1 (Pin1), mRNA [NM_023371]
A_55_P2004636	-0,42	-4,07	0,0339	Ppih	Mus musculus peptidyl prolyl isomerase H (Ppih), transcript variant 1, mRNA [NM_028677]
A_55_P2186352	-0,42	-3,69	0,0474	Ttc12	Mus musculus tetratricopeptide repeat domain 12 (Ttc12), mRNA [NM_172770]
A_51_P404413	-0,42	-4,29	0,0282	Bckdk	Mus musculus branched chain ketoacid dehydrogenase kinase (Bckdk), mRNA [NM_009739]
A_55_P2010858	-0,42	-4,53	0,0231	Mrps23	Mus musculus mitochondrial ribosomal protein S23 (Mrps23), transcript variant 3, mRNA [NM_001291271]
A_51_P421984	-0,42	-3,97	0,0367	Timm22	Mus musculus translocase of inner mitochondrial membrane 22 (Timm22), transcript variant 1, mRNA [NM_019818]

A_51_P373369	-0,42	-5,34	0,0120	Med4	Mus musculus mediator complex subunit 4 (Med4), mRNA [NM_026119]
A_52_P151320	-0,42	-3,99	0,0361	Tnfaip81	Mus musculus tumor necrosis factor, alpha-induced protein 8-like 1 (Tnfaip81), mRNA [NM_025566]
A_52_P206881	-0,42	-4,48	0,0239	Prpf18	Mus musculus PRP18 pre-mRNA processing factor 18 homolog (yeast) (Prpf18), mRNA [NM_026045]
A_51_P279854	-0,42	-3,95	0,0373	Ndufa11	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex 11 (Ndufa11), mRNA [NM_027244]
A_55_P1981090	-0,42	-3,64	0,0494	Thap7	Mus musculus THAP domain containing 7 (Thap7), mRNA [NM_026909]
A_52_P412543	-0,42	-4,00	0,0357	Dcaf15	Mus musculus DDB1 and CUL4 associated factor 15 (Dcaf15), mRNA [NM_172502]
A_51_P453167	-0,42	-4,43	0,0250	Carkd	Mus musculus carbohydrate kinase domain containing (Carkd), transcript variant 1, mRNA [NM_026995]
A_55_P2154714	-0,42	-4,42	0,0252	Klh9	Mus musculus kelch-like 9 (Klh9), mRNA [NM_172871]
A_51_P283876	-0,42	-4,38	0,0261	Bphl	Mus musculus biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin-associated antigen) (Bphl), mRNA [NM_026512]
A_55_P1962926	-0,42	-4,56	0,0224	Snape3	Mus musculus small nuclear RNA activating complex, polypeptide 3 (Snape3), mRNA [NM_029949]
A_52_P456077	-0,42	-3,78	0,0433	Comm2	Mus musculus COMM domain containing 2 (Comm2), mRNA [NM_175095]
A_51_P152747	-0,43	-4,10	0,0330	Nrip1	Mus musculus nuclear receptor interacting protein 1 (Nrip1), mRNA [NM_173440]
A_51_P496804	-0,43	-4,31	0,0278	Adat2	Mus musculus adenosine deaminase, tRNA-specific 2 (Adat2), mRNA [NM_025748]
A_55_P2063163	-0,43	-4,66	0,0205	Agk	Mus musculus acylglycerol kinase (Agk), mRNA [NM_023538]
A_55_P1965114	-0,43	-4,18	0,0307	Spsb3	Mus musculus splA/ryanodine receptor domain and SOCS box containing 3 (Spsb3), transcript variant 1, mRNA [NM_001163750]
A_52_P424826	-0,43	-3,85	0,0407	Txn14b	Mus musculus thioredoxin-like 4B (Txn14b), mRNA [NM_175646]
A_52_P644534	-0,43	-4,03	0,0350	Dhrsx	Mus musculus dehydrogenase/reductase (SDR family) X chromosome (Dhrsx), mRNA [NM_001033326]
A_51_P181746	-0,43	-3,89	0,0393	Zfyve1	Mus musculus zinc finger, FYVE domain containing 1 (Zfyve1), mRNA [NM_183154]
A_55_P2433438	-0,43	-3,72	0,0459	Tcf12	Mus musculus transcription factor 12 (Tcf12), transcript variant 1, mRNA [NM_011544]
A_55_P2009206	-0,43	-3,96	0,0368	Sumo2	Mus musculus SMT3 suppressor of mif two 3 homolog 2 (yeast) (Sumo2), mRNA [NM_133354]
A_51_P443569	-0,43	-4,08	0,0337	Mum1	Mus musculus melanoma associated antigen (mutated) 1 (Mum1), mRNA [NM_023431]
A_51_P256093	-0,43	-4,07	0,0337	Map2k6	Mus musculus mitogen-activated protein kinase kinase 6 (Map2k6), mRNA [NM_011943]
A_66_P115996	-0,43	-4,32	0,0273	Ccbl1	Mus musculus cysteine conjugate-beta lyase 1 (Ccbl1), mRNA [NM_172404]
A_55_P2060101	-0,43	-4,83	0,0179	Tprgl	Mus musculus transformation related protein 63 regulated like (Tprgl), mRNA [NM_026388]
A_51_P363634	-0,43	-4,15	0,0315	Snrpe	Mus musculus small nuclear ribonucleoprotein E (Snrpe), mRNA [NM_009227]
A_55_P2069392	-0,43	-4,62	0,0212	LOC102642045	PREDICTED: Mus musculus histone H3.3-like (LOC102642045), mRNA [XM_006544749]
A_55_P2184106	-0,43	-3,80	0,0428	Gpn2	Mus musculus GPN-loop GTPase 2 (Gpn2), transcript variant 1, mRNA [NM_133884]
A_55_P1992640	-0,43	-3,96	0,0369	Hdac3	Mus musculus histone deacetylase 3 (Hdac3), mRNA [NM_010411]
A_55_P2034670	-0,43	-4,42	0,0252	Fbxl12	Mus musculus F-box and leucine-rich repeat protein 12 (Fbxl12), transcript variant 1, mRNA [NM_013911]
A_55_P2126695	-0,43	-3,76	0,0443	Gm5792	PREDICTED: Mus musculus predicted pseudogene 5792 (Gm5792), mRNA [XM_619114]
A_55_P1957909	-0,43	-4,27	0,0286	Mrpl49	Mus musculus mitochondrial ribosomal protein L49 (Mrpl49), mRNA [NM_026246]
A_55_P2179309	-0,43	-4,13	0,0320	A630033H20Rik	Mus musculus RIKEN cDNA A630033H20 gene (A630033H20Rik), transcript variant 1, mRNA [NM_001122596]
A_55_P2032034	-0,43	-3,74	0,0451	Tbp	Mus musculus TATA box binding protein (Tbp), mRNA [NM_013684]
A_51_P388696	-0,43	-3,86	0,0403	Ndufs4	Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 4 (Ndufs4), mRNA [NM_010887]
A_51_P117618	-0,43	-5,14	0,0140	Ethe1	Mus musculus ethylmalonic encephalopathy 1 (Ethe1), mRNA [NM_023154]
A_51_P191520	-0,43	-3,66	0,0484	Stard10	Mus musculus START domain containing 10 (Stard10), mRNA [NM_019990]
A_51_P116487	-0,43	-4,11	0,0328	Lsm4	Mus musculus LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm4), mRNA [NM_015816]
A_51_P116687	-0,43	-4,30	0,0279	1700010114Rik	Mus musculus RIKEN cDNA 1700010114 gene (1700010114Rik), mRNA [NM_025851]
A_52_P8685	-0,43	-4,22	0,0297	Tmem183a	Mus musculus transmembrane protein 183A (Tmem183a), transcript variant 1, mRNA [NM_020588]
A_51_P461761	-0,43	-4,24	0,0293	Zcchc8	Mus musculus zinc finger, CCHC domain containing 8 (Zcchc8), mRNA [NM_027494]
A_51_P353392	-0,43	-4,44	0,0249	Cript	Mus musculus cysteine-rich PDZ-binding protein (Cript), mRNA [NM_019936]
A_51_P184100	-0,43	-4,01	0,0356	Capn7	Mus musculus calpain 7 (Capn7), mRNA [NM_009796]
A_51_P299287	-0,43	-4,10	0,0331	Impa2	Mus musculus inositol (myo)-1(or 4)-monophosphatase 2 (Impa2), mRNA [NM_053261]
A_51_P520106	-0,43	-3,97	0,0368	Adprhl2	Mus musculus ADP-ribosylhydrolase like 2 (Adprhl2), mRNA [NM_133883]
A_51_P123017	-0,43	-4,85	0,0176	Gmcl1	Mus musculus germ cell-less homolog 1 (Drosophila) (Gmcl1), mRNA [NM_011818]
A_51_P514647	-0,43	-5,53	0,0103	Paip2	Mus musculus polyadenylate-binding protein-interacting protein 2 (Paip2), mRNA [NM_026420]
A_51_P124606	-0,43	-3,83	0,0411	Nat2	Mus musculus N-acetyltransferase 2 (arylamine N-acetyltransferase) (Nat2), transcript variant 1, mRNA

					[NM_010874]
A_55_P2013833	-0.43	-4.82	0,0180	Ddx3x	Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked (Ddx3x), mRNA [NM_010028]
A_51_P394728	-0.43	-4.85	0,0176	Kti12	Mus musculus KTI12 homolog, chromatin associated (S. cerevisiae) (Kti12), mRNA [NM_029571]
A_55_P1952720	-0.43	-5.70	0,0092	Kctd2	Mus musculus potassium channel tetramerisation domain containing 2 (Kctd2), mRNA [NM_183285]
A_51_P322994	-0.43	-5.11	0,0144	Mrpl22	Mus musculus mitochondrial ribosomal protein L22 (Mrpl22), mRNA [NM_175001]
A_55_P1971804	-0.43	-5.22	0,0132	Hdac10	Mus musculus histone deacetylase 10 (Hdac10), transcript variant 1, mRNA [NM_199198]
A_51_P136460	-0.43	-4.72	0,0194	Zmat2	Mus musculus zinc finger, matrin type 2 (Zmat2), mRNA [NM_025594]
A_51_P505696	-0.43	-4.83	0,0178	Inpp5k	Mus musculus inositol polyphosphate 5-phosphatase K (Inpp5k), mRNA [NM_008916]
A_55_P2059110	-0.44	-5.65	0,0095	Skap1	Mus musculus src family associated phosphoprotein 1 (Skap1), transcript variant 1, mRNA [NM_001033186]
A_55_P1996698	-0.44	-4.95	0,0163	Gm16381	Mus musculus predicted gene 16381 (Gm16381), mRNA [NM_001166062]
A_55_P2008651	-0.44	-3.99	0,0361	Qdpr	Mus musculus quinoid dihydropteridine reductase (Qdpr), mRNA [NM_024236]
A_51_P419971	-0.44	-3.94	0,0374	Tmem106b	Mus musculus transmembrane protein 106B (Tmem106b), mRNA [NM_027992]
A_55_P1980416	-0.44	-3.70	0,0467	Zkscan1	Mus musculus zinc finger with KRAB and SCAN domains 1 (Zkscan1), transcript variant 1, mRNA [NM_133906]
A_55_P2005680	-0.44	-3.91	0,0385	Ipo11	Mus musculus importin 11 (Ipo11), mRNA [NM_029665]
A_55_P2001903	-0.44	-4.50	0,0237	Smim4	Mus musculus small integral membrane protein 4 (Smim4), long non-coding RNA [NR_024069]
A_66_P112623	-0.44	-4.30	0,0278	Psmc6	Mus musculus proteasome (prosome, macropain) 26S subunit, ATPase, 6 (Psmc6), mRNA [NM_025959]
A_51_P338776	-0.44	-4.39	0,0258	Dnajc8	Mus musculus Dnaj (Hsp40) homolog, subfamily C, member 8 (Dnajc8), mRNA [NM_172400]
A_55_P1991475	-0.44	-4.84	0,0177	Sesn1	Mus musculus sestrin 1 (Sesn1), transcript variant 1, mRNA [NM_001162908]
A_51_P519385	-0.44	-4.42	0,0252	Sacm1l	Mus musculus SAC1 (suppressor of actin mutations 1, homolog)-like (S. cerevisiae) (Sacm1l), mRNA [NM_030692]
A_52_P59681	-0.44	-4.08	0,0335	Hrsp12	Mus musculus heat-responsive protein 12 (Hrsp12), mRNA [NM_008287]
A_51_P227777	-0.44	-4.34	0,0269	Top2b	Mus musculus topoisomerase (DNA) II beta (Top2b), mRNA [NM_009409]
A_51_P336952	-0.44	-3.74	0,0451	Cry1l	Mus musculus crystallin, lambda 1 (Cry1l), mRNA [NM_030004]
A_55_P2121961	-0.44	-5.19	0,0136	Psmc3	Mus musculus proteasome (prosome, macropain) 26S subunit, ATPase 3 (Psmc3), mRNA [NM_008948]
A_55_P1981731	-0.44	-3.69	0,0473	Nr2c2	Mus musculus nuclear receptor subfamily 2, group C, member 2 (Nr2c2), mRNA [NM_011630]
A_55_P2129234	-0.44	-5.40	0,0114	Calm2	Mus musculus calmodulin 2 (Calm2), mRNA [NM_007589]
A_52_P67995	-0.44	-4.62	0,0213	Eif4a3	Mus musculus eukaryotic translation initiation factor 4A3 (Eif4a3), mRNA [NM_138669]
A_55_P2155041	-0.44	-4.69	0,0199	Ssbp2	Mus musculus single-stranded DNA binding protein 2 (Ssbp2), transcript variant 2, mRNA [NM_024272]
A_52_P451378	-0.44	-4.16	0,0312	Twsg1	Mus musculus twisted gastrulation homolog 1 (Drosophila) (Twsg1), mRNA [NM_023053]
A_51_P370380	-0.44	-4.29	0,0280	Rdh14	Mus musculus retinol dehydrogenase 14 (all-trans and 9-cis) (Rdh14), mRNA [NM_023697]
A_55_P1997486	-0.44	-4.49	0,0237	Nhp21l	Mus musculus NHP2 non-histone chromosome protein 2-like 1 (S. cerevisiae) (Nhp21l), mRNA [NM_011482]
A_55_P1991440	-0.44	-5.30	0,0123	Zscan21	Mus musculus zinc finger and SCAN domain containing 21 (Zscan21), transcript variant 1, mRNA [NM_011757]
A_51_P197883	-0.44	-4.08	0,0336	Exo5	Mus musculus exonuclease 5 (Exo5), transcript variant 1, mRNA [NM_028457]
A_51_P340402	-0.44	-4.42	0,0252	Eefsec	Mus musculus eukaryotic elongation factor, selenocysteine-tRNA-specific (Eefsec), mRNA [NM_023060]
A_51_P106144	-0.44	-5.11	0,0145	Zfp64	Mus musculus zinc finger protein 64 (Zfp64), mRNA [NM_009564]
A_51_P206268	-0.44	-3.83	0,0414	Seh1l	Mus musculus SEH1-like (S. cerevisiae) (Seh1l), transcript variant 1, mRNA [NM_001039088]
A_52_P482124	-0.44	-4.18	0,0307	Fam32a	Mus musculus family with sequence similarity 32, member A (Fam32a), mRNA [NM_026455]
A_51_P151271	-0.44	-3.67	0,0478	Eif4b	Mus musculus eukaryotic translation initiation factor 4B (Eif4b), mRNA [NM_145625]
A_55_P2121372	-0.44	-4.44	0,0249	Trp53i13	Mus musculus transformation related protein 53 inducible protein 13 (Trp53i13), mRNA [NM_001024920]
A_55_P1953980	-0.44	-4.77	0,0187	Sdhb	Mus musculus succinate dehydrogenase complex, subunit B, iron sulfur (Ip) (Sdhb), mRNA [NM_023374]
A_51_P365952	-0.44	-4.89	0,0172	Trdmt1	Mus musculus tRNA aspartic acid methyltransferase 1 (Trdmt1), mRNA [NM_010067]
A_55_P2097309	-0.44	-3.88	0,0396	Nudt4	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 4 (Nudt4), mRNA [NM_027722]
A_52_P206492	-0.44	-5.18	0,0137	Pop4	Mus musculus processing of precursor 4, ribonuclease P/MRP family, (S. cerevisiae) (Pop4), mRNA [NM_025390]
A_51_P339713	-0.44	-5.28	0,0126	Mrps26	Mus musculus mitochondrial ribosomal protein S26 (Mrps26), mRNA [NM_207207]
A_55_P2134251	-0.44	-5.24	0,0130	Hmgb1	Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130095009 product:high mobility group box 1, full insert sequence. [AK051800]
A_55_P2155062	-0.44	-4.83	0,0178	Naa40	Mus musculus N(alpha)-acetyltransferase 40, NatD catalytic subunit, homolog (S. cerevisiae) (Naa40), mRNA [NM_027643]
A_55_P2007663	-0.44	-3.82	0,0419	Alkbh8	Mus musculus alkB, alkylation repair homolog 8 (E. coli) (Alkbh8), mRNA [NM_026303]
A_55_P2025626	-0.44	-3.68	0,0477	Gm13238	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130073N12 product:unclassifiable, full

					insert sequence. [AK038044]
A_55_P1965194	-0,44	-4,29	0,0281	Fbxl5	Mus musculus F-box and leucine-rich repeat protein 5 (Fbxl5), transcript variant 2, mRNA [NM_178729]
A_51_P184806	-0,44	-4,11	0,0329	Elmod2	Mus musculus ELMO/CED-12 domain containing 2 (Elmod2), transcript variant 1, mRNA [NM_178736]
A_52_P587642	-0,44	-3,81	0,0422	Ddx19a	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 19a (Ddx19a), mRNA [NM_007916]
A_52_P545643	-0,44	-4,80	0,0184	Tmem263	Mus musculus transmembrane protein 263 (Tmem263), mRNA [NM_001013028]
A_51_P261001	-0,45	-4,29	0,0282	Mtf2	Mus musculus metal response element binding transcription factor 2 (Mtf2), transcript variant 1, mRNA [NM_013827]
A_51_P475875	-0,45	-5,04	0,0151	Lrwd1	Mus musculus leucine-rich repeats and WD repeat domain containing 1 (Lrwd1), mRNA [NM_027891]
A_51_P228865	-0,45	-4,77	0,0188	Zfp72	Mus musculus zinc finger protein 72 (Zfp72), mRNA [NM_001081680]
A_55_P1979217	-0,45	-5,86	0,0082	Abtb1	Mus musculus ankyrin repeat and BTB (POZ) domain containing 1 (Abtb1), mRNA [NM_030251]
A_51_P111757	-0,45	-3,80	0,0425	Asb1	Mus musculus ankyrin repeat and SOCS box-containing 1 (Asb1), transcript variant 1, mRNA [NM_001039126]
A_55_P2125564	-0,45	-3,88	0,0395	Lrrc58	Mus musculus leucine rich repeat containing 58 (Lrrc58), mRNA [NM_177093]
A_55_P2076639	-0,45	-4,24	0,0292	Vps25	Mus musculus vacuolar protein sorting 25 (yeast) (Vps25), transcript variant 3, mRNA [NM_001284412]
A_51_P201904	-0,45	-5,02	0,0152	Ndufb5	Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5 (Ndufb5), mRNA [NM_025316]
A_52_P58471	-0,45	-3,76	0,0444	Tmem199	Mus musculus transmembrane protein 199 (Tmem199), mRNA [NM_199199]
A_55_P2061456	-0,45	-3,80	0,0428	Nfyc	Mus musculus nuclear transcription factor-Y gamma (Nfyc), transcript variant 1, mRNA [NM_008692]
A_51_P110841	-0,45	-4,72	0,0194	Mrps35	Mus musculus mitochondrial ribosomal protein S35 (Mrps35), mRNA [NM_145573]
A_55_P1971709	-0,45	-4,74	0,0192	Dnajc8	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 8 (Dnajc8), mRNA [NM_172400]
A_55_P1975456	-0,45	-4,15	0,0315	Nfyb	Mus musculus nuclear transcription factor-Y beta (Nfyb), mRNA [NM_010914]
A_51_P148314	-0,45	-4,83	0,0179	Fam117a	Mus musculus family with sequence similarity 117, member A (Fam117a), mRNA [NM_172543]
A_55_P1969431	-0,45	-3,99	0,0361	Lyrm5	Mus musculus LYR motif containing 5 (Lyrm5), transcript variant 1, mRNA [NM_001163628]
A_51_P333071	-0,45	-4,29	0,0280	Anapc16	Mus musculus anaphase promoting complex subunit 16 (Anapc16), mRNA [NM_025514]
A_55_P2070546	-0,45	-3,76	0,0444	1700037C18 Rik	Mus musculus RIKEN cDNA 1700037C18 gene (1700037C18Rik), mRNA [NM_028484]
A_52_P145349	-0,45	-3,96	0,0369	Stradb	Mus musculus STE20-related kinase adaptor beta (Stradb), mRNA [NM_172656]
A_52_P411430	-0,45	-3,71	0,0466	LOC1026366 86	PREDICTED: Mus musculus uncharacterized LOC102636686 (LOC102636686), mRNA [XM_006531547]
A_55_P1975742	-0,45	-4,15	0,0315	Dap3	Mus musculus death associated protein 3 (Dap3), transcript variant 2, mRNA [NM_022994]
A_52_P515247	-0,45	-5,14	0,0140	Arhgdib	Mus musculus Rho, GDP dissociation inhibitor (GDI) beta (Arhgdib), mRNA [NM_007486]
A_66_P120901	-0,45	-4,78	0,0185	Atxn10	Mus musculus ataxin 10 (Atxn10), mRNA [NM_016843]
A_55_P2135271	-0,45	-4,15	0,0314	Zfp358	Mus musculus zinc finger protein 358 (Zfp358), mRNA [NM_080461]
A_52_P646979	-0,45	-4,20	0,0302	D16Ert472e	Mus musculus DNA segment, Chr 16, ERATO Doi 472, expressed (D16Ert472e), transcript variant 2, mRNA [NM_025967]
A_51_P332602	-0,45	-4,81	0,0181	Surf1	Mus musculus surfet gene 1 (Surf1), transcript variant 1, mRNA [NM_013677]
A_51_P438701	-0,45	-3,74	0,0453	Atpaf2	Mus musculus ATP synthase mitochondrial F1 complex assembly factor 2 (Atpaf2), mRNA [NM_145427]
A_51_P392244	-0,45	-4,48	0,0239	Tbcd	Mus musculus tubulin-specific chaperone d (Tbcd), mRNA [NM_029878]
A_55_P2093784	-0,45	-4,74	0,0192	Pip4k2a	Mus musculus phosphatidylinositol-5-phosphate 4-kinase, type II, alpha (Pip4k2a), mRNA [NM_008845]
A_55_P2401084	-0,45	-4,08	0,0336	4930558N01 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930558N01 product:unclassifiable, full insert sequence. [AK016181]
A_51_P103509	-0,45	-4,35	0,0267	Cyb561d2	Mus musculus cytochrome b-561 domain containing 2 (Cyb561d2), mRNA [NM_019720]
A_55_P2121081	-0,45	-4,03	0,0347	Cul2	Mus musculus cullin 2 (Cul2), mRNA [NM_029402]
A_52_P442756	-0,45	-3,88	0,0396	Btf3l4	Mus musculus basic transcription factor 3-like 4 (Btf3l4), mRNA [NM_027453]
A_51_P212419	-0,45	-4,20	0,0302	Lrrc41	Mus musculus leucine rich repeat containing 41 (Lrrc41), mRNA [NM_153521]
A_52_P255804	-0,45	-3,67	0,0478	Cbx1	chromobox 1 [Source:MGI Symbol;Acc:MGI:105369] [ENSMUST00000134585]
A_66_P138829	-0,45	-3,67	0,0479	Ndufs8	Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 8 (Ndufs8), transcript variant 1, mRNA [NM_144870]
A_55_P1957219	-0,45	-3,86	0,0402	Ptma	Mus musculus prothymosin alpha (Ptma), mRNA [NM_008972]
A_52_P206613	-0,45	-4,38	0,0261	Adss	Mus musculus adenylosuccinate synthetase, non muscle (Adss), mRNA [NM_007422]
A_51_P422629	-0,45	-3,64	0,0496	Tbpl1	Mus musculus TATA box binding protein-like 1 (Tbpl1), mRNA [NM_011603]
A_51_P193000	-0,45	-3,81	0,0423	Bbs4	Mus musculus Bardet-Biedl syndrome 4 (human) (Bbs4), mRNA [NM_175325]
A_55_P2052172	-0,46	-5,84	0,0083	LOC1026430 64	PREDICTED: Mus musculus NHP2-like protein 1-like (LOC102643064), misc_RNA [XR_403709]
A_55_P2062727	-0,46	-4,22	0,0296	Nasp	Mus musculus nuclear autoantigenic sperm protein (histone-binding) (Nasp), transcript variant 2, mRNA [NM_016777]
A_51_P348022	-0,46	-3,65	0,0488	Nudt21	Mus musculus nüdx (nucleoside diphosphate linked moiety X)-type motif 21 (Nudt21), mRNA [NM_026623]



A_51_P503866	-0,46	-3,69	0,0474	Edem1	Mus musculus ER degradation enhancer, mannosidase alpha-like 1 (Edem1), mRNA [NM_138677]
A_55_P2055291	-0,46	-4,27	0,0285	Gpn2	Mus musculus GPN-loop GTPase 2 (Gpn2), transcript variant 1, mRNA [NM_133884]
A_52_P558699	-0,46	-4,34	0,0270	Smek1	Mus musculus SMEK homolog 1, suppressor of mek1 (Dictyostelium) (Smek1), transcript variant 1, mRNA [NM_211355]
A_55_P1973462	-0,46	-4,72	0,0194	Pex11b	Mus musculus peroxisomal biogenesis factor 11 beta (Pex11b), transcript variant 1, mRNA [NM_011069]
A_55_P2129232	-0,46	-4,92	0,0167	Calm2	Mus musculus calmodulin 2 (Calm2), mRNA [NM_007589]
A_55_P2031045	-0,46	-4,63	0,0210	Stat5b	Mus musculus signal transducer and activator of transcription 5B (Stat5b), transcript variant 1, mRNA [NM_011489]
A_55_P1970234	-0,46	-3,92	0,0381	Dclk2	Mus musculus doublecortin-like kinase 2 (Dclk2), transcript variant 4, mRNA [NM_001195498]
A_55_P2063711	-0,46	-5,73	0,0090	Nhp21l	Mus musculus NHP2 non-histone chromosome protein 2-like 1 (S. cerevisiae) (Nhp21l), mRNA [NM_011482]
A_51_P277718	-0,46	-4,86	0,0176	Cenpc1	Mus musculus centromere protein C1 (Cenpc1), mRNA [NM_007683]
A_51_P331385	-0,46	-4,34	0,0269	Paip2b	Mus musculus poly(A) binding protein interacting protein 2B (Paip2b), mRNA [NM_146169]
A_55_P1988273	-0,46	-4,04	0,0345	Rnf103	Mus musculus ring finger protein 103 (Rnf103), mRNA [NM_009543]
A_51_P350403	-0,46	-4,46	0,0244	Exoc4	Mus musculus exocyst complex component 4 (Exoc4), mRNA [NM_009148]
A_55_P2092073	-0,46	-4,17	0,0310	Taf11	Mus musculus TAF11 RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf11), mRNA [NM_026836]
A_55_P2357860	-0,46	-3,96	0,0369	Atxn7l1	PREDICTED: Mus musculus ataxin 7-like 1 (Atxn7l1), transcript variant X2, mRNA [XM_006515124]
A_55_P2038867	-0,46	-4,20	0,0303	Mcat	Mus musculus malonyl CoA:ACP acyltransferase (mitochondrial) (Mcat), mRNA [NM_001030014]
A_55_P2004501	-0,46	-3,76	0,0443	Immp1l	Mus musculus IMP1 inner mitochondrial membrane peptidase-like (S. cerevisiae) (Immp1l), mRNA [NM_028260]
A_51_P321651	-0,46	-4,33	0,0273	Fam192a	Mus musculus family with sequence similarity 192, member A (Fam192a), mRNA [NM_028221]
A_51_P516133	-0,46	-4,26	0,0289	Hist1h1c	histone cluster 1, H1c [Source:MGI Symbol;Acc:MGI:1931526] [ENSMUST00000040914]
A_51_P154997	-0,46	-4,50	0,0235	Brms1	Mus musculus breast cancer metastasis-suppressor 1 (Brms1), mRNA [NM_134155]
A_55_P2011551	-0,46	-4,32	0,0273	Anapc5	Mus musculus CRL-1722 L5178Y-R cDNA, RIKEN full-length enriched library, clone:I730060B02 product:anaphase-promoting complex subunit 5, full insert sequence. [AK168135]
A_52_P214891	-0,46	-4,88	0,0173	Stx6	Mus musculus syntaxin 6 (Stx6), mRNA [NM_021433]
A_55_P1982718	-0,46	-4,99	0,0157	Rtfdc1	Mus musculus replication termination factor 2 domain containing 1 (Rtfdc1), mRNA [NM_025542]
A_55_P1977548	-0,46	-5,34	0,0120	Mapk1	Mus musculus mitogen-activated protein kinase 1 (Mapk1), transcript variant 1, mRNA [NM_011949]
A_52_P591166	-0,46	-3,69	0,0474	Dpysl2	Mus musculus dihydropyrimidinase-like 2 (Dpysl2), mRNA [NM_009955]
A_66_P121770	-0,46	-5,00	0,0156	Ilf2	Mus musculus interleukin enhancer binding factor 2 (Ilf2), mRNA [NM_026374]
A_52_P304858	-0,46	-5,45	0,0109	Gnb1	Mus musculus guanine nucleotide binding protein (G protein), beta 1 (Gnb1), transcript variant 1, mRNA [NM_008142]
A_66_P123014	-0,46	-4,08	0,0335	Twistnb	Mus musculus TWIST neighbor (Twistnb), mRNA [NM_172253]
A_52_P55717	-0,46	-4,55	0,0226	Adnp	Mus musculus activity-dependent neuroprotective protein (Adnp), mRNA [NM_009628]
A_55_P2335529	-0,46	-3,66	0,0485	4921531C22 Rik	Mus musculus RIKEN cDNA 4921531C22 gene (4921531C22Rik), long non-coding RNA [NR_033782]
A_55_P2040280	-0,46	-5,71	0,0091	Dhps	Mus musculus deoxyhypusine synthase (Dhps), mRNA [NM_001039514]
A_66_P109562	-0,46	-4,42	0,0252	Gm12271	PREDICTED: Mus musculus predicted gene 12271 (Gm12271), mRNA [XM_890719]
A_55_P2004637	-0,46	-4,02	0,0353	Gm17748	PREDICTED: Mus musculus predicted gene, 17748 (Gm17748), mRNA [XM_006523363]
A_51_P118539	-0,46	-4,03	0,0349	2700049A03 Rik	Mus musculus RIKEN cDNA 2700049A03 gene (2700049A03Rik), transcript variant 1, mRNA [NM_001163378]
A_55_P2046158	-0,46	-4,38	0,0260	Tax1bp3	Mus musculus Tax1 (human T-cell leukemia virus type 1) binding protein 3, mRNA (cDNA clone MGC:7169 IMAGE:3257323), complete cds. [BC008166]
A_55_P2042526	-0,47	-4,91	0,0170	Apoo	Mus musculus apolipoprotein O (Apoo), transcript variant 2, mRNA [NM_001199337]
A_55_P2068734	-0,47	-3,77	0,0437	Ccl27a	Mus musculus chemokine (C-C motif) ligand 27A (Ccl27a), transcript variant 1, mRNA [NM_001048179]
A_55_P2013501	-0,47	-4,62	0,0213	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_55_P2037897	-0,47	-4,16	0,0311	Brd3	Mus musculus bromodomain containing 3 (Brd3), transcript variant 3, mRNA [NM_023336]
A_55_P1988083	-0,47	-4,52	0,0232	Prc1	Mus musculus protein regulator of cytokinesis 1 (Prc1), transcript variant 1, mRNA [NM_145150]
A_51_P348665	-0,47	-3,73	0,0458	Ramp1	Mus musculus receptor (calcitonin) activity modifying protein 1 (Ramp1), transcript variant 1, mRNA [NM_016894]
A_55_P2082986	-0,47	-3,99	0,0363	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_55_P2037712	-0,47	-3,74	0,0451	Smc4	Mus musculus structural maintenance of chromosomes 4 (Smc4), mRNA [NM_133786]
A_52_P631568	-0,47	-4,05	0,0342	Thoc6	Mus musculus THO complex 6 homolog (Drosophila) (Thoc6), mRNA [NM_001008425]
A_55_P2101177	-0,47	-5,09	0,0146	Ncaph2	Mus musculus non-SMC condensin II complex, subunit H2 (Ncaph2), transcript variant 3, mRNA [NM_001271601]
A_51_P273538	-0,47	-4,07	0,0339	Syce2	Mus musculus synaptonemal complex central element protein 2 (Syce2), transcript variant 2, mRNA [NM_027954]
A_51_P370252	-0,47	-4,47	0,0242	Capn10	Mus musculus calpain 10 (Capn10), mRNA [NM_011796]

A_51_P175758	-0,47	-5,36	0,0117	Atg101	Mus musculus autophagy related 101 (Atg101), mRNA [NM_026566]
A_51_P429366	-0,47	-5,66	0,0095	Hes6	Mus musculus hairy and enhancer of split 6 (Hes6), mRNA [NM_019479]
A_55_P2001891	-0,47	-4,31	0,0276	Prps1	Mus musculus phosphoribosyl pyrophosphate synthetase 1 (Prps1), mRNA [NM_021463]
A_55_P1971956	-0,47	-4,65	0,0205	Ift46	Mus musculus intraflagellar transport 46 (Ift46), mRNA [NM_023831]
A_55_P2014997	-0,47	-5,95	0,0077	Amz2	Mus musculus archaealysin family metalloproteinase 2 (Amz2), transcript variant 2, mRNA [NM_001252193]
A_52_P350664	-0,47	-4,83	0,0179	Pygb	Mus musculus brain glycogen phosphorylase (Pygb), mRNA [NM_153781]
A_55_P2140383	-0,47	-4,11	0,0330	Mis18a	Mus musculus MIS18 kinetochore protein homolog A (S. pombe) (Mis18a), mRNA [NM_025642]
A_51_P154684	-0,47	-4,13	0,0323	Alyref	Mus musculus Aly/REF export factor (Alyref), mRNA [NM_011568]
A_55_P2169849	-0,47	-4,09	0,0334	Thoc6	Mus musculus THO complex 6 homolog (Drosophila) (Thoc6), mRNA [NM_001008425]
A_52_P263251	-0,47	-4,32	0,0274	3110040N11 Rik	Mus musculus RIKEN cDNA 3110040N11 gene (3110040N11Rik), mRNA [NM_026077]
A_55_P1960167	-0,47	-4,32	0,0274	Bcat2	Mus musculus branched chain aminotransferase 2, mitochondrial (Bcat2), transcript variant 2, mRNA [NM_001243052]
A_52_P606679	-0,47	-4,39	0,0258	Tceb3	Mus musculus transcription elongation factor B (SIII), polypeptide 3 (Tceb3), mRNA [NM_013736]
A_55_P2161829	-0,47	-4,04	0,0346	Hmgb1-rs17	Mus musculus high mobility group box 1, related sequence 17 (Hmgb1-rs17), non-coding RNA [NR_033589]
A_55_P1964225	-0,47	-4,01	0,0357	Elac2	Mus musculus elcC homolog 2 (E. coli) (Elac2), mRNA [NM_023479]
A_51_P518586	-0,47	-4,89	0,0172	Emg1	Mus musculus EMG1 nucleolar protein homolog (S. cerevisiae) (Emg1), mRNA [NM_013536]
A_65_P15340	-0,47	-4,19	0,0304	Zfp251	Mus musculus zinc finger protein 251 (Zfp251), mRNA [NM_001007568]
A_52_P69756	-0,47	-4,20	0,0304	Mterfd2	Mus musculus MTERF domain containing 2 (Mterfd2), mRNA [NM_178051]
A_51_P517096	-0,47	-4,07	0,0339	Casp8ap2	Mus musculus caspase 8 associated protein 2 (Casp8ap2), transcript variant 1, mRNA [NM_011997]
A_55_P2023703	-0,47	-3,78	0,0432	Zfp386	Mus musculus zinc finger protein 386 (Krüppel-like) (Zfp386), transcript variant 1, mRNA [NM_001004066]
A_51_P121302	-0,47	-4,26	0,0288	Them4	Mus musculus thioesterase superfamily member 4 (Them4), mRNA [NM_029431]
A_51_P456366	-0,48	-3,88	0,0397	Pard6a	Mus musculus par-6 family cell polarity regulator alpha (Pard6a), transcript variant 3, mRNA [NM_001047436]
A_55_P2000683	-0,48	-5,55	0,0102	Eci2	Mus musculus enoyl-Coenzyme A delta isomerase 2 (Eci2), transcript variant 2, mRNA [NM_011868]
A_52_P417859	-0,48	-4,13	0,0324	Gid4	Mus musculus GID complex subunit 4, VID24 homolog (S. cerevisiae) (Gid4), mRNA [NM_025757]
A_55_P2109342	-0,48	-4,65	0,0206	Rnps1	Mus musculus ribonucleic acid binding protein S1 (Rnps1), transcript variant 1, mRNA [NM_009070]
A_55_P2040863	-0,48	-5,00	0,0156	Cnn3	Mus musculus calponin 3, acidic (Cnn3), mRNA [NM_028044]
A_55_P2000638	-0,48	-3,99	0,0361	Stag2	Mus musculus stromal antigen 2 (Stag2), transcript variant 2, mRNA [NM_001077712]
A_51_P489153	-0,48	-4,82	0,0180	Crot	Mus musculus carnitine O-octanoyltransferase (Crot), mRNA [NM_023733]
A_52_P282700	-0,48	-3,73	0,0458	Zbtb33	Mus musculus zinc finger and BTB domain containing 33 (Zbtb33), transcript variant 1, mRNA [NM_020256]
A_55_P2032187	-0,48	-4,74	0,0192	Gm12666	predicted gene 12666 [Source:MGI Symbol;Acc:MGI:3650864] [ENSMUST00000123179]
A_55_P1957433	-0,48	-4,05	0,0344	Mripip	Mus musculus myosin phosphatase Rho interacting protein (Mripip), transcript variant 1, mRNA [NM_201245]
A_55_P2093439	-0,48	-3,69	0,0474	Mex3d	Mus musculus mex3 homolog D (C. elegans) (Mex3d), mRNA [NM_198615]
A_55_P2171715	-0,48	-3,76	0,0443	Mrps33	Mus musculus mitochondrial ribosomal protein S33 (Mrps33), transcript variant 1, mRNA [NM_010270]
A_55_P2027240	-0,48	-3,66	0,0488	Engase	Mus musculus endo-beta-N-acetylglucosaminidase (Engase), mRNA [NM_172573]
A_55_P2020143	-0,48	-4,24	0,0293	Slc39a3	Mus musculus solute carrier family 39 (zinc transporter), member 3 (Slc39a3), mRNA [NM_134135]
A_55_P2128451	-0,48	-3,75	0,0448	Sfpq	Mus musculus splicing factor proline/glutamine rich (polypyrimidine tract binding protein associated) (Sfpq), transcript variant 1, mRNA [NM_023603]
A_51_P149373	-0,48	-4,93	0,0166	Fbxl20	Mus musculus F-box and leucine-rich repeat protein 20 (Fbxl20), mRNA [NM_028149]
A_51_P187842	-0,48	-3,87	0,0399	Eif4e3	Mus musculus eukaryotic translation initiation factor 4E member 3 (Eif4e3), mRNA [NM_025829]
A_55_P2012779	-0,48	-5,81	0,0086	Rnf167	Mus musculus ring finger protein 167 (Rnf167), mRNA [NM_027445]
A_55_P2131353	-0,48	-5,10	0,0145	1110059G10 Rik	Mus musculus RIKEN cDNA 1110059G10 gene (1110059G10Rik), mRNA [NM_025419]
A_55_P2045114	-0,48	-4,90	0,0171	Tmem242	Mus musculus transmembrane protein 242 (Tmem242), mRNA [NM_027457]
A_55_P1995698	-0,48	-4,07	0,0338	Thumpd1	Mus musculus THUMP domain containing 1 (Thumpd1), mRNA [NM_145585]
A_55_P2117741	-0,48	-5,16	0,0138	Nck2	Mus musculus non-catalytic region of tyrosine kinase adaptor protein 2 (Nck2), mRNA [NM_010879]
A_51_P196127	-0,48	-4,11	0,0329	Papss1	Mus musculus 3'-phosphoadenosine 5'-phosphosulfate synthase 1 (Papss1), transcript variant 1, mRNA [NM_011863]
A_55_P1966883	-0,48	-4,24	0,0294	Rnaseh2a	Mus musculus ribonuclease H2, large subunit (Rnaseh2a), mRNA [NM_027187]
A_55_P2055087	-0,48	-5,22	0,0132	Prkar2b	Mus musculus protein kinase, cAMP dependent regulatory, type II beta (Prkar2b), mRNA [NM_011158]
A_51_P395743	-0,48	-5,33	0,0120	Spopl	Mus musculus speckle-type POZ protein-like (Spopl), transcript variant 1, mRNA [NM_029773]
A_55_P2047559	-0,48	-3,91	0,0385	Ccp110	Mus musculus centriolar coiled coil protein 110 (Ccp110), mRNA [NM_182995]

A_66_P139876	-0,48	-4,00	0,0361	Psph	Mus musculus phosphoserine phosphatase (Psph), mRNA [NM_133900]
A_55_P2024749	-0,48	-5,66	0,0094	Hspb11	Mus musculus heat shock protein family B (small), member 11 (Hspb11), mRNA [NM_028394]
A_51_P481644	-0,48	-3,98	0,0363	Mbip	Mus musculus MAP3K12 binding inhibitory protein 1 (Mbip), mRNA [NM_145442]
A_51_P332141	-0,48	-3,82	0,0416	Clcn2	Mus musculus chloride channel 2 (Clcn2), mRNA [NM_009900]
A_52_P249588	-0,48	-4,30	0,0279	Cnot11	Mus musculus CCR4-NOT transcription complex, subunit 11 (Cnot11), mRNA [NM_028043]
A_55_P2088331	-0,48	-4,10	0,0330	Ctdsp2	Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2 (Ctdsp2), transcript variant a, mRNA [NM_001113470]
A_51_P300655	-0,48	-4,19	0,0305	Tbccd1	Mus musculus TBCC domain containing 1 (Tbccd1), mRNA [NM_001081368]
A_52_P42380	-0,48	-3,63	0,0497	Tmem106c	Mus musculus transmembrane protein 106C (Tmem106c), transcript variant 1, mRNA [NM_201359]
A_52_P536735	-0,48	-3,71	0,0464	Hpcal1	Mus musculus hippocalcin-like 1 (Hpcal1), mRNA [NM_016677]
A_51_P258766	-0,48	-4,21	0,0301	Smo	Mus musculus smoothened homolog (Drosophila) (Smo), mRNA [NM_176996]
A_52_P387564	-0,48	-3,95	0,0373	Tmpo	Mus musculus thymopoietin (Tmpo), transcript variant 3, mRNA [NM_001080129]
A_55_P2010704	-0,48	-4,80	0,0184	2700094K13 Rik	Mus musculus RIKEN cDNA 2700094K13 gene (2700094K13Rik), transcript variant 2, mRNA [NM_001037279]
A_55_P2372902	-0,48	-4,18	0,0306	5330438D12 Rik	PREDICTED: Mus musculus RIKEN cDNA 5330438D12 gene (5330438D12Rik), misc RNA [XR_380953]
A_55_P2093794	-0,49	-4,36	0,0266	Usp3	Mus musculus ubiquitin specific peptidase 3 (Usp3), mRNA [NM_144937]
A_51_P176883	-0,49	-3,82	0,0419	Edrf1	Mus musculus erythroid differentiation regulatory factor 1 (Edrf1), mRNA [NM_178115]
A_55_P1980883	-0,49	-4,86	0,0176	Ephb6	Mus musculus Eph receptor B6 (Ephb6), transcript variant 1, mRNA [NM_001146351]
A_55_P2113356	-0,49	-4,67	0,0201	Miip	Mus musculus migration and invasion inhibitory protein (Miip), mRNA [NM_001025365]
A_55_P2133637	-0,49	-3,79	0,0430	Etfa	Mus musculus electron transferring flavoprotein, alpha polypeptide (Etfa), mRNA [NM_145615]
A_55_P2102897	-0,49	-5,54	0,0102	Gm12657	Mus musculus predicted gene 12657 (Gm12657), mRNA [NM_001081019]
A_55_P2149515	-0,49	-3,99	0,0361	Rsrc1	Mus musculus arginine/serine-rich coiled-coil 1 (Rsrc1), mRNA [NM_025822]
A_51_P208361	-0,49	-5,05	0,0149	Ak3	Mus musculus adenylate kinase 3 (Ak3), mRNA [NM_021299]
A_55_P1952676	-0,49	-4,34	0,0269	Gtf2a2	Mus musculus general transcription factor II A, 2 (Gtf2a2), transcript variant 1, mRNA [NM_001282083]
A_52_P543824	-0,49	-3,70	0,0469	Srsf6	Mus musculus serine/arginine-rich splicing factor 6 (Srsf6), mRNA [NM_026499]
A_55_P2005135	-0,49	-4,74	0,0191	Tardbp	Mus musculus TAR DNA binding protein (Tardbp), transcript variant 4, mRNA [NM_001008546]
A_55_P2015178	-0,49	-3,87	0,0399	Nap111	Mus musculus nucleosome assembly protein 1-like 1 (Nap111), transcript variant 2, mRNA [NM_015781]
A_52_P574697	-0,49	-4,25	0,0292	Khdrbs1	Mus musculus KH domain containing, RNA binding, signal transduction associated 1 (Khdrbs1), transcript variant 1, mRNA [NM_011317]
A_51_P211968	-0,49	-5,92	0,0079	Lcmt1	Mus musculus leucine carboxyl methyltransferase 1 (Lcmt1), mRNA [NM_025304]
A_55_P2007510	-0,49	-5,89	0,0081	Pef1	Mus musculus penta-EF hand domain containing 1 (Pef1), mRNA [NM_026441]
A_51_P224445	-0,49	-4,39	0,0259	Gpn3	Mus musculus GPN-loop GTPase 3 (Gpn3), mRNA [NM_024216]
A_52_P24951	-0,49	-3,91	0,0385	Ado	Mus musculus 2-aminoethanethiol (cysteamine) dioxygenase (Ado), mRNA [NM_001005419]
A_51_P118223	-0,49	-3,73	0,0458	Gm1943	Mus musculus predicted gene 1943 (Gm1943), non-coding RNA [NR_002928]
A_52_P118958	-0,49	-4,23	0,0295	Pex19	Mus musculus peroxisomal biogenesis factor 19 (Pex19), transcript variant 1, mRNA [NM_023041]
A_51_P516085	-0,49	-4,71	0,0195	Dntt	Mus musculus deoxynucleotidyltransferase, terminal (Dntt), transcript variant 1, mRNA [NM_009345]
A_52_P313080	-0,49	-4,71	0,0195	Hnrnpab	Mus musculus heterogeneous nuclear ribonucleoprotein A/B (Hnrnpab), transcript variant 2, mRNA [NM_010448]
A_51_P465740	-0,49	-4,35	0,0268	Lysmd4	Mus musculus LysM, putative peptidoglycan-binding, domain containing 4 (Lysmd4), transcript variant B, mRNA [NM_175215]
A_51_P136888	-0,49	-4,49	0,0237	Rb1	Mus musculus retinoblastoma 1 (Rb1), mRNA [NM_009029]
A_55_P2008136	-0,49	-5,14	0,0140	Ctr9	Mus musculus Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) (Ctr9), mRNA [NM_009431]
A_55_P1962641	-0,49	-3,66	0,0485	Rnf26	Mus musculus ring finger protein 26 (Rnf26), mRNA [NM_153762]
A_51_P487308	-0,49	-4,88	0,0174	Pstk	Mus musculus phosphoserine-kinase (Pstk), mRNA [NM_001039534]
A_52_P238816	-0,49	-4,93	0,0165	Ppt2	Mus musculus palmitoyl-protein thioesterase 2 (Ppt2), mRNA [NM_019441]
A_51_P188795	-0,49	-6,64	0,0048	Akr7a5	Mus musculus aldo-keto reductase family 7, member A5 (afatoxin aldehyde reductase) (Akr7a5), mRNA [NM_025337]
A_52_P32864	-0,49	-4,80	0,0184	Prps2	Mus musculus phosphoribosyl pyrophosphate synthetase 2 (Prps2), mRNA [NM_026662]
A_55_P2117169	-0,49	-3,85	0,0406	Zmym1	Mus musculus zinc finger, MYM domain containing 1 (Zmym1), mRNA [NM_026670]
A_55_P2113066	-0,49	-4,45	0,0246	Zkscan5	Mus musculus zinc finger with KRAB and SCAN domains 5 (Zkscan5), transcript variant 1, mRNA [NM_016683]
A_55_P2158018	-0,49	-3,87	0,0398	Rnf39	Mus musculus ring finger protein 39 (Rnf39), mRNA [NM_001099632]
A_55_P2052831	-0,49	-3,82	0,0417	0610009B22 Rik	Mus musculus RIKEN cDNA 0610009B22 gene (0610009B22Rik), mRNA [NM_025319]



A_55_P2108067	-0,49	-4,48	0,0240	Dgcr8	Mus musculus DiGeorge syndrome critical region gene 8 (Dgcr8), mRNA [NM_033324]
A_52_P228236	-0,49	-5,43	0,0112	Tfrc	Mus musculus transferrin receptor (Tfrc), mRNA [NM_011638]
A_55_P2078008	-0,49	-3,74	0,0451	Ddx46	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 46 (Ddx46), mRNA [NM_001282055]
A_51_P106428	-0,49	-4,77	0,0187	Nsmce4a	Mus musculus non-SMC element 4 homolog A (S. cerevisiae) (Nsmce4a), mRNA [NM_001162855]
A_55_P2078459	-0,49	-4,86	0,0176	Kpna2	Mus musculus karyopherin (importin) alpha 2 (Kpna2), mRNA [NM_010655]
A_55_P2080703	-0,49	-3,77	0,0440	Cstf2	Mus musculus cleavage stimulation factor, 3' pre-RNA subunit 2 (Cstf2), transcript variant 3, mRNA [NM_001290399]
A_51_P327188	-0,49	-3,64	0,0496	Senp1	Mus musculus SUMO1/sentrin specific peptidase 1 (Senp1), mRNA [NM_144851]
A_51_P197378	-0,49	-5,63	0,0096	Atg12	Mus musculus autophagy related 12 (Atg12), mRNA [NM_026217]
A_55_P1960331	-0,49	-3,71	0,0465	Srbd1	Mus musculus S1 RNA binding domain 1 (Srbd1), mRNA [NM_030133]
A_51_P376857	-0,49	-5,28	0,0125	Det1	Mus musculus de-etiolated homolog 1 (Arabidopsis) (Det1), mRNA [NM_029585]
A_66_P100021	-0,49	-5,84	0,0084	Ncaph2	Mus musculus non-SMC condensin II complex, subunit H2 (Ncaph2), transcript variant 3, mRNA [NM_001271601]
A_55_P1964477	-0,49	-4,82	0,0180	Srsf1	Mus musculus serine/arginine-rich splicing factor 1 (Srsf1), transcript variant 2, mRNA [NM_001078167]
A_52_P183038	-0,49	-3,94	0,0374	Impdh1	Mus musculus inosine 5'-phosphate dehydrogenase 1 (Impdh1), mRNA [NM_011829]
A_55_P2031442	-0,50	-6,01	0,0074	Pithd1	Mus musculus PITH (C-terminal proteasome-interacting domain of thioredoxin-like) domain containing 1 (Pithd1), mRNA [NM_025411]
A_52_P391718	-0,50	-5,37	0,0116	Rpl22	Mus musculus ribosomal protein L22 (Rpl22), transcript variant 1, mRNA [NM_009079]
A_55_P2042729	-0,50	-4,64	0,0209	Gm17764	PREDICTED: Mus musculus predicted gene, 17764 (Gm17764), misc_RNA [XR_373585]
A_51_P328400	-0,50	-4,69	0,0199	Cops2	Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 2 (Arabidopsis thaliana) (Cops2), transcript variant 2, mRNA [NM_009939]
A_51_P173022	-0,50	-5,90	0,0081	Nsmce1	Mus musculus non-SMC element 1 homolog (S. cerevisiae) (Nsmce1), mRNA [NM_026330]
A_52_P381953	-0,50	-5,04	0,0150	Irf2bp1	Mus musculus interferon regulatory factor 2 binding protein 1 (Irf2bp1), mRNA [NM_178757]
A_52_P191975	-0,50	-4,23	0,0295	Rtn3	Mus musculus reticulon 3 (Rtn3), transcript variant 1, mRNA [NM_001003934]
A_51_P425696	-0,50	-5,68	0,0094	Nt5c2	Mus musculus 5'-nucleotidase, cytosolic II (Nt5c2), transcript variant 3, mRNA [NM_029810]
A_55_P2028300	-0,50	-3,68	0,0476	Ppm1d	Mus musculus protein phosphatase 1D magnesium-dependent, delta isoform (Ppm1d), mRNA [NM_016910]
A_52_P342896	-0,50	-4,36	0,0265	Mrps33	Mus musculus mitochondrial ribosomal protein S33 (Mrps33), transcript variant 2, mRNA [NM_001010930]
A_55_P2146177	-0,50	-4,16	0,0311	Cerk	Mus musculus ceramide kinase (Cerk), mRNA [NM_145475]
A_55_P2053850	-0,50	-3,64	0,0493	LOC102632427	PREDICTED: Mus musculus protein FAM136A-like (LOC102632427), partial mRNA [XM_006508961]
A_52_P103550	-0,50	-4,42	0,0252	Tfdp1	Mus musculus transcription factor Dp 1 (Tfdp1), transcript variant 1, mRNA [NM_009361]
A_52_P323830	-0,50	-3,64	0,0496	Zfp830	Mus musculus zinc finger protein 830 (Zfp830), mRNA [NM_025884]
A_51_P379775	-0,50	-5,30	0,0122	Nrm	Mus musculus nurim (nuclear envelope membrane protein) (Nrm), mRNA [NM_134122]
A_51_P243808	-0,50	-4,47	0,0242	Traf3ip3	Mus musculus TRAF3 interacting protein 3 (Traf3ip3), mRNA [NM_153137]
A_55_P1988728	-0,50	-3,84	0,0409	Fbxl19	Mus musculus F-box and leucine-rich repeat protein 19 (Fbxl19), mRNA [NM_172748]
A_55_P1979491	-0,50	-4,84	0,0178	Cd28	Mus musculus CD28 antigen (Cd28), mRNA [NM_007642]
A_55_P2159807	-0,50	-4,15	0,0315	Rfc4	Mus musculus replication factor C (activator 1) 4 (Rfc4), mRNA [NM_145480]
A_55_P1998066	-0,50	-3,72	0,0459	Tmem121	Mus musculus transmembrane protein 121 (Tmem121), mRNA [NM_153776]
A_51_P351413	-0,50	-3,94	0,0376	Phospho2	Mus musculus phosphatase, orphan 2 (Phospho2), mRNA [NM_028521]
A_51_P480904	-0,50	-6,23	0,0064	Blmh	Mus musculus bleomycin hydrolase (Blmh), mRNA [NM_178645]
A_52_P253317	-0,50	-5,07	0,0147	4930481A15 Rik	Mus musculus RIKEN cDNA 4930481A15 gene (4930481A15Rik), transcript variant 2, long non-coding RNA [NR_027938]
A_52_P614472	-0,50	-4,56	0,0225	Rpusd1	Mus musculus RNA pseudouridylate synthase domain containing 1 (Rpusd1), mRNA [NM_028009]
A_52_P277854	-0,50	-5,07	0,0147	Snrpb	Mus musculus small nuclear ribonucleoprotein B (Snrpb), mRNA [NM_009225]
A_52_P80806	-0,50	-4,69	0,0199	Syncrip	Mus musculus synaptotagmin binding, cytoplasmic RNA interacting protein (Syncrip), transcript variant 2, mRNA [NM_019796]
A_51_P453948	-0,50	-4,90	0,0170	Drg1	Mus musculus developmentally regulated GTP binding protein 1 (Drg1), mRNA [NM_007879]
A_52_P686091	-0,50	-4,23	0,0295	Phf2	Mus musculus PHD finger protein 2 (Phf2), mRNA [NM_011078]
A_55_P2059986	-0,50	-5,62	0,0097	Chst14	Mus musculus carbohydrate (N-acetyl)galactosamine 4-0 sulfotransferase 14 (Chst14), mRNA [NM_028117]
A_51_P513085	-0,50	-5,54	0,0103	Gins4	Mus musculus GINS complex subunit 4 (Sld5 homolog) (Gins4), mRNA [NM_024240]
A_51_P401730	-0,50	-5,87	0,0082	Vwa9	Mus musculus von Willebrand factor A domain containing 9 (Vwa9), transcript variant 1, mRNA [NM_175153]
A_52_P39247	-0,50	-4,60	0,0217	Hbp1	Mus musculus high mobility group box transcription factor 1 (Hbp1), transcript variant 1, mRNA [NM_153198]
A_55_P2000521	-0,50	-3,91	0,0384	Lonrf1	Mus musculus LON peptidase N-terminal domain and ring finger 1 (Lonrf1), mRNA [NM_001081150]

A_51_P107433	-0,50	-6,06	0,0072	Mrpl34	Mus musculus mitochondrial ribosomal protein L34 (Mrpl34), mRNA [NM_053162]
A_52_P305279	-0,50	-3,91	0,0385	Spata13	Mus musculus spermatogenesis associated 13 (Spata13), mRNA [NM_001033272]
A_55_P2096599	-0,50	-3,82	0,0420	Tsc22d4	Mus musculus TSC22 domain family, member 4 (Tsc22d4), transcript variant 2, mRNA [NM_023910]
A_52_P20048	-0,50	-4,23	0,0295	Tcf12	Mus musculus transcription factor 12 (Tcf12), transcript variant 1, mRNA [NM_011544]
A_51_P161691	-0,50	-5,34	0,0120	Coq7	Mus musculus demethyl-Q 7 (Coq7), mRNA [NM_009940]
A_55_P1991911	-0,50	-4,53	0,0231	LOC102641638	PREDICTED: Mus musculus high mobility group protein B1-like (LOC102641638), mRNA [XM_006544804]
A_55_P1978321	-0,50	-4,26	0,0289	Fbxo8	Mus musculus F-box protein 8 (Fbxo8), mRNA [NM_015791]
A_52_P390114	-0,50	-3,93	0,0380	Eif4b	Mus musculus eukaryotic translation initiation factor 4B (Eif4b), mRNA [NM_145625]
A_55_P2066041	-0,50	-5,79	0,0086	Hnrnpa1	Mus musculus heterogeneous nuclear ribonucleoprotein A1 (Hnrnpa1), transcript variant 1, mRNA [NM_010447]
A_52_P542172	-0,50	-4,32	0,0273	Rb1cc1	Mus musculus RB1-inducible coiled-coil 1 (Rb1cc1), mRNA [NM_009826]
A_51_P324838	-0,51	-4,68	0,0200	Evpl	Mus musculus envoplakin (Evpl), mRNA [NM_025276]
A_55_P2012780	-0,51	-4,73	0,0193	Rnf167	Mus musculus ring finger protein 167 (Rnf167), mRNA [NM_027445]
A_51_P433026	-0,51	-5,47	0,0108	Ppapdc2	Mus musculus phosphatidic acid phosphatase type 2 domain containing 2 (Ppapdc2), mRNA [NM_028922]
A_51_P281246	-0,51	-4,86	0,0176	Cep57	Mus musculus centrosomal protein 57 (Cep57), transcript variant 1, mRNA [NM_026665]
A_51_P418420	-0,51	-4,78	0,0185	Ddx3x	Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked (Ddx3x), mRNA [NM_010028]
A_51_P167048	-0,51	-4,49	0,0238	Hs6st1	Mus musculus heparan sulfate 6-O-sulfotransferase 1 (Hs6st1), mRNA [NM_015818]
A_55_P2031043	-0,51	-5,35	0,0119	Stat5b	Mus musculus signal transducer and activator of transcription 5B (Stat5b), transcript variant 1, mRNA [NM_011489]
A_55_P1984841	-0,51	-3,98	0,0364	Polr2i	polymerase (RNA) II (DNA directed) polypeptide I [Source:MGI Symbol;Acc:MGI:1917170] [ENSMUST00000145559]
A_52_P625431	-0,51	-3,94	0,0376	Hnrnpa0	Mus musculus heterogeneous nuclear ribonucleoprotein A0 (Hnrnpa0), mRNA [NM_029872]
A_51_P431554	-0,51	-3,70	0,0468	Ten1	Mus musculus TEN1 telomerase capping complex subunit (Ten1), mRNA [NM_027107]
A_51_P414837	-0,51	-4,61	0,0214	Faf1	Mus musculus Fas-associated factor 1 (Faf1), mRNA [NM_007983]
A_52_P599055	-0,51	-3,90	0,0389	Atg14	Mus musculus autophagy related 14 (Atg14), mRNA [NM_172599]
A_51_P129720	-0,51	-4,92	0,0167	Hectd3	Mus musculus HECT domain containing 3 (Hectd3), mRNA [NM_175244]
A_52_P137829	-0,51	-3,98	0,0365	Pdpr	pyruvate dehydrogenase phosphatase regulatory subunit [Source:MGI Symbol;Acc:MGI:2442188] [ENSMUST00000039333]
A_55_P2166743	-0,51	-5,62	0,0097	Sp3os	Mus musculus trans-acting transcription factor 3, opposite strand (Sp3os), long non-coding RNA [NR_045269]
A_52_P279184	-0,51	-4,61	0,0215	Srp54a	Mus musculus signal recognition particle 54A (Srp54a), mRNA [NM_011899]
A_52_P33014	-0,51	-3,92	0,0381	Ppp1r8	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 8 (Ppp1r8), transcript variant 1, mRNA [NM_146154]
A_55_P2050236	-0,51	-5,92	0,0079	l7Rn6	Mus musculus lethal, Chr 7, Rinchik 6 (l7Rn6), transcript variant 4, mRNA [NM_001291288]
A_55_P2415372	-0,51	-4,40	0,0256	Mta1	Mus musculus metastasis associated 1 (Mta1), mRNA [NM_054081]
A_55_P2156464	-0,51	-4,98	0,0158	Nt5c3b	Mus musculus 5'-nucleotidase, cytosolic IIIB (Nt5c3b), transcript variant 1, mRNA [NM_001102650]
A_55_P2032708	-0,51	-5,49	0,0106	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_51_P151897	-0,51	-5,18	0,0137	R3hcc1	Mus musculus R3H domain and coiled-coil containing 1 (R3hcc1), mRNA [NM_001146012]
A_55_P1980601	-0,51	-4,58	0,0220	Oscp1	Mus musculus organic solute carrier partner 1 (Oscp1), mRNA [NM_172701]
A_55_P1953301	-0,51	-3,69	0,0474	Sord	Mus musculus sorbitol dehydrogenase (Sord), mRNA [NM_146126]
A_52_P402319	-0,51	-5,09	0,0146	Med20	Mus musculus mediator complex subunit 20 (Med20), mRNA [NM_020048]
A_52_P485766	-0,51	-3,71	0,0464	Zdhc17	Mus musculus zinc finger, DHHC domain containing 17 (Zdhc17), mRNA [NM_172554]
A_55_P1998651	-0,51	-4,81	0,0181	Entpd5	Mus musculus ectonucleoside triphosphate diphosphohydrolase 5 (Entpd5), transcript variant 2, mRNA [NM_001026214]
A_65_P01065	-0,51	-3,65	0,0489	Phf14	Mus musculus PHD finger protein 14 (Phf14), transcript variant 1, mRNA [NM_001168382]
A_51_P141836	-0,51	-3,92	0,0381	Ube3c	Mus musculus ubiquitin protein ligase E3C (Ube3c), mRNA [NM_133907]
A_55_P2134148	-0,51	-5,03	0,0152	Mzt2	Mus musculus mitotic spindle organizing protein 2 (Mzt2), mRNA [NM_029354]
A_55_P2159801	-0,51	-3,68	0,0474	Rfc4	Mus musculus replication factor C (activator 1) 4 (Rfc4), mRNA [NM_145480]
A_51_P209518	-0,51	-4,79	0,0185	Galnt1	Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (Galnt1), transcript variant 1, mRNA [NM_013814]
A_51_P351394	-0,51	-3,78	0,0433	Vps45	Mus musculus vacuolar protein sorting 45 (yeast) (Vps45), mRNA [NM_013841]
A_66_P116154	-0,51	-5,42	0,0112	Cstf2	Mus musculus cleavage stimulation factor, 3' pre-RNA subunit 2 (Cstf2), transcript variant 1, mRNA [NM_133196]
A_51_P466759	-0,51	-4,46	0,0243	Mau2	Mus musculus MAU2 chromatid cohesion factor homolog (C. elegans) (Mau2), transcript variant 2, mRNA [NM_028993]
A_55_P1954006	-0,51	-5,17	0,0138	Ldhd	Mus musculus lactate dehydrogenase B (Ldhd), mRNA [NM_008492]
A_52_P56658	-0,51	-4,31	0,0276	Emc3	Mus musculus ER membrane protein complex subunit 3 (Emc3), mRNA [NM_175101]

A_51_P466829	-0,51	-6,02	0,0074	Fam109a	Mus musculus family with sequence similarity 109, member A (Fam109a), mRNA [NM_175474]
A_51_P341664	-0,51	-4,37	0,0264	Zfp87	Mus musculus zinc finger protein 87 (Zfp87), mRNA [NM_133228]
A_55_P2155499	-0,51	-5,93	0,0079	Tmem9	Mus musculus transmembrane protein 9 (Tmem9), transcript variant 1, mRNA [NM_001160145]
A_51_P144926	-0,51	-6,21	0,0065	Cops8	Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 8 (Arabidopsis thaliana) (Cops8), mRNA [NM_133805]
A_66_P104190	-0,51	-3,69	0,0474	Gsk3b	Mus musculus glycogen synthase kinase 3 beta (Gsk3b), mRNA [NM_019827]
A_66_P123938	-0,51	-5,17	0,0138	Smim13	Mus musculus small integral membrane protein 13 (Smim13), mRNA [NM_001135577]
A_52_P683441	-0,52	-3,79	0,0430	Capn5	Mus musculus calpain 5 (Capn5), mRNA [NM_007602]
A_51_P211934	-0,52	-5,11	0,0144	Larp7	Mus musculus La ribonucleoprotein domain family, member 7 (Larp7), mRNA [NM_138593]
A_55_P2083213	-0,52	-3,81	0,0422	Purb	Mus musculus purine rich element binding protein B (Purb), mRNA [NM_011221]
A_51_P119401	-0,52	-4,16	0,0314	Tug1	Mus musculus taurine upregulated gene 1 (Tug1), transcript variant b, long non-coding RNA [NR_002322]
A_51_P285487	-0,52	-3,79	0,0428	Rnf113a1	Mus musculus ring finger protein 113A1 (Rnf113a1), mRNA [NM_153503]
A_55_P2136353	-0,52	-3,97	0,0367	Gm8675	PREDICTED: Mus musculus predicted gene 8675 (Gm8675), misc_RNA [XR_031666]
A_55_P2070799	-0,52	-4,72	0,0194	Tyw1	Mus musculus tRNA-yW synthesizing protein 1 homolog (S. cerevisiae) (Tyw1), transcript variant 1, mRNA [NM_001015876]
A_51_P307220	-0,52	-4,41	0,0256	Ankrd54	Mus musculus ankyrin repeat domain 54 (Ankrd54), mRNA [NM_144849]
A_52_P300416	-0,52	-4,72	0,0194	Dcp1a	Mus musculus DCP1 decapping enzyme homolog A (S. cerevisiae) (Dcp1a), mRNA [NM_133761]
A_55_P2180884	-0,52	-4,28	0,0284	Psmd10	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 10 (Psmd10), transcript variant 1, mRNA [NM_016883]
A_55_P2180201	-0,52	-5,66	0,0094	Mrpl10	Mus musculus mitochondrial ribosomal protein L10 (Mrpl10), mRNA [NM_026154]
A_52_P647919	-0,52	-4,97	0,0160	Usf2	Mus musculus upstream transcription factor 2 (Usf2), mRNA [NM_011680]
A_51_P485899	-0,52	-5,62	0,0097	Srsf1	Mus musculus serine/arginine-rich splicing factor 1 (Srsf1), transcript variant 2, mRNA [NM_001078167]
A_51_P349662	-0,52	-6,30	0,0061	Taf5l	Mus musculus TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor (Taf5l), mRNA [NM_133966]
A_51_P512820	-0,52	-4,06	0,0341	Dera	Mus musculus 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) (Dera), mRNA [NM_172733]
A_51_P321965	-0,52	-4,65	0,0205	Ssna1	Mus musculus Sjogren's syndrome nuclear autoantigen 1 (Ssna1), mRNA [NM_023464]
A_55_P2129309	-0,52	-3,79	0,0431	LOC102636048	PREDICTED: Mus musculus uncharacterized LOC102636048 (LOC102636048), transcript variant X1, ncRNA [XR_380269]
A_52_P264229	-0,52	-3,69	0,0471	Ing5	Mus musculus inhibitor of growth family, member 5 (Ing5), mRNA [NM_025454]
A_51_P151586	-0,52	-5,05	0,0149	Gsg2	Mus musculus germ cell-specific gene 2 (Gsg2), mRNA [NM_010353]
A_52_P144285	-0,52	-3,96	0,0369	Fam72a	Mus musculus family with sequence similarity 72, member A (Fam72a), mRNA [NM_175382]
A_52_P625683	-0,52	-4,60	0,0216	Pxmp4	Mus musculus peroxisomal membrane protein 4 (Pxmp4), mRNA [NM_021534]
A_55_P2110362	-0,52	-4,01	0,0356	Zfp637	Mus musculus zinc finger protein 637 (Zfp637), mRNA [NM_177684]
A_52_P537566	-0,52	-3,86	0,0403	Cenpt	Mus musculus centromere protein T (Cenpt), mRNA [NM_177150]
A_51_P293901	-0,53	-4,18	0,0308	Dhrs1	Mus musculus dehydrogenase/reductase (SDR family) member 1 (Dhrs1), mRNA [NM_026819]
A_51_P343356	-0,53	-4,10	0,0330	Isoc2b	Mus musculus isochorismatase domain containing 2b (Isoc2b), mRNA [NM_026158]
A_51_P336721	-0,53	-4,87	0,0174	Tipin	Mus musculus timeless interacting protein (Tipin), mRNA [NM_025372]
A_51_P345836	-0,53	-3,86	0,0404	Prkra	Mus musculus protein kinase, interferon inducible double stranded RNA dependent activator (Prkra), mRNA [NM_011871]
A_52_P581435	-0,53	-5,51	0,0105	Pdha1	Mus musculus pyruvate dehydrogenase E1 alpha 1 (Pdha1), mRNA [NM_008810]
A_51_P480982	-0,53	-5,20	0,0135	Glo1	Mus musculus glyoxalase 1 (Glo1), transcript variant 1, mRNA [NM_025374]
A_55_P1975420	-0,53	-4,08	0,0336	Dhx40	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 40 (Dhx40), mRNA [NM_026191]
A_51_P114028	-0,53	-3,84	0,0408	Bcl7c	Mus musculus B cell CLL/lymphoma 7C (Bcl7c), mRNA [NM_009746]
A_51_P128336	-0,53	-4,74	0,0192	Serinc5	Mus musculus serine incorporator 5 (Serinc5), mRNA [NM_172588]
A_52_P605812	-0,53	-4,43	0,0250	Pthr1	Mus musculus peptidyl-tRNA hydrolase 1 homolog (S. cerevisiae) (Pthr1), mRNA [NM_178595]
A_55_P2061809	-0,53	-4,24	0,0294	Ndufc2	Mus musculus NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2 (Ndufc2), mRNA [NM_024220]
A_51_P488510	-0,53	-4,29	0,0281	App1	Mus musculus adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (App1), mRNA [NM_145221]
A_51_P306658	-0,53	-5,21	0,0134	Lsm8	Mus musculus LSM8 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm8), mRNA [NM_133939]
A_55_P1966337	-0,53	-5,36	0,0118	Polr2h	Mus musculus polymerase (RNA) II (DNA directed) polypeptide H (Polr2h), mRNA [NM_145632]
A_55_P2171406	-0,53	-3,76	0,0444	Tm7sf2	Mus musculus transmembrane 7 superfamily member 2 (Tm7sf2), mRNA [NM_028454]
A_51_P397375	-0,53	-3,64	0,0496	Pet112	Mus musculus PET112 homolog (S. cerevisiae) (Pet112), mRNA [NM_144896]
A_55_P2031403	-0,53	-4,56	0,0225	Smim24	Mus musculus 11 days pregnant adult female ovary and uterus cDNA, RIKEN full-length enriched library, clone:5033427P15

					product:weakly similar to HSPC323 (FRAGMENT) [Homo sapiens], full insert sequence. [AK030337]
A_51_P158061	-0,53	-3,91	0,0385	Dalrd3	Mus musculus DALR anticodon binding domain containing 3 (Dalrd3), mRNA [NM_026378]
A_55_P2167050	-0,53	-5,18	0,0137	Paip2	Mus musculus polyadenylate-binding protein-interacting protein 2 (Paip2), mRNA [NM_026420]
A_52_P45834	-0,53	-3,72	0,0462	Pafah1b2	Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, subunit 2 (Pafah1b2), mRNA [NM_008775]
A_55_P1964615	-0,53	-4,31	0,0277	Dnttip1	Mus musculus deoxynucleotidyltransferase, terminal, interacting protein 1 (Dnttip1), mRNA [NM_133763]
A_55_P1982744	-0,53	-5,73	0,0091	Gm8556	PREDICTED: Mus musculus predicted gene 8556 (Gm8556), mRNA [XM_006508439]
A_55_P2012815	-0,53	-4,95	0,0162	Acvr2b	Mus musculus activin receptor IIB (Acvr2b), mRNA [NM_007397]
A_55_P1955147	-0,53	-4,35	0,0267	Camk1d	Mus musculus calcium/calmodulin-dependent protein kinase ID (Camk1d), transcript variant 1, mRNA [NM_177343]
A_51_P408749	-0,53	-4,90	0,0171	4933439C10 Rik	Mus musculus RIKEN cDNA 4933439C10 gene (4933439C10Rik), long non-coding RNA [NR_015585]
A_55_P1995503	-0,53	-4,39	0,0258	Gm5643	Mus musculus predicted gene 5643 (Gm5643), non-coding RNA [NR_002883]
A_52_P539161	-0,53	-5,82	0,0085	Rdh11	Mus musculus retinol dehydrogenase 11 (Rdh11), mRNA [NM_021557]
A_55_P2032538	-0,53	-4,32	0,0275	Pde3b	Mus musculus phosphodiesterase 3B, cGMP-inhibited (Pde3b), mRNA [NM_011055]
A_55_P2040416	-0,53	-4,40	0,0257	Pradc1	Mus musculus protease-associated domain containing 1 (Pradc1), transcript variant 2, mRNA [NM_001163427]
A_51_P393761	-0,53	-5,78	0,0087	Ndufs2	Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 2 (Ndufs2), mRNA [NM_153064]
A_55_P2143693	-0,53	-4,66	0,0204	Syt11	Mus musculus synaptotagmin-like 1 (Syt11), mRNA [NM_031393]
A_51_P254045	-0,53	-3,98	0,0365	Traip	Mus musculus TRAF-interacting protein (Traip), mRNA [NM_011634]
A_55_P2207342	-0,53	-3,69	0,0474	Gm15411	PREDICTED: Mus musculus predicted gene 15411 (Gm15411), transcript variant X3, misc_RNA [XR_377238]
A_55_P2131785	-0,53	-4,75	0,0190	Kiz	Mus musculus kizuna centrosomal protein (Kiz), mRNA [NM_001033298]
A_55_P2022104	-0,53	-4,57	0,0223	Rfwd2	Mus musculus ring finger and WD repeat domain 2 (Rfwd2), mRNA [NM_011931]
A_55_P2027327	-0,53	-4,68	0,0200	Usp1	Mus musculus ubiquitin specific peptidase 1 (Usp1), mRNA [NM_146144]
A_55_P2127702	-0,53	-3,94	0,0373	Racgap1	Mus musculus Rac GTPase-activating protein 1 (Racgap1), transcript variant 3, mRNA [NM_001253809]
A_51_P282092	-0,53	-5,52	0,0104	Urod	Mus musculus uroporphyrinogen decarboxylase (Urod), mRNA [NM_009478]
A_52_P153848	-0,53	-4,11	0,0328	Prpf4b	Mus musculus PRP4 pre-mRNA processing factor 4 homolog B (yeast) (Prpf4b), mRNA [NM_013830]
A_51_P296416	-0,53	-6,24	0,0064	Orc6	Mus musculus origin recognition complex, subunit 6 (Orc6), transcript variant 1, mRNA [NM_019716]
A_52_P103260	-0,53	-4,35	0,0269	AA987161	Mus musculus expressed sequence AA987161 (AA987161), mRNA [NM_001163246]
A_55_P2061465	-0,53	-5,27	0,0126	Ppp1r21	Mus musculus protein phosphatase 1, regulatory subunit 21 (Ppp1r21), mRNA [NM_028658]
A_55_P1979305	-0,53	-3,80	0,0428	Gle1	Mus musculus GLE1 RNA export mediator (yeast) (Gle1), mRNA [NM_028923]
A_55_P2110215	-0,53	-3,95	0,0372	Ckap5	Mus musculus cytoskeleton associated protein 5 (Ckap5), transcript variant 1, mRNA [NM_001165989]
A_55_P2160322	-0,53	-4,15	0,0315	Anapc15	Mus musculus anaphase promoting complex C subunit 15 (Anapc15), transcript variant 3, mRNA [NM_027532]
A_51_P101228	-0,54	-3,99	0,0362	Gmeb2	Mus musculus glucocorticoid modulatory element binding protein 2 (Gmeb2), mRNA [NM_198169]
A_55_P1968553	-0,54	-4,32	0,0274	Btbd9	Mus musculus BTB (POZ) domain containing 9 (Btbd9), transcript variant 1, mRNA [NM_027060]
A_51_P191586	-0,54	-5,14	0,0140	Arpc1a	Mus musculus actin related protein 2/3 complex, subunit 1A (Arpc1a), mRNA [NM_019767]
A_55_P2008619	-0,54	-4,30	0,0279	Lanc2	Mus musculus LanC (bacterial lantibiotic synthetase component C)-like 2 (Lanc2), mRNA [NM_133737]
A_66_P132249	-0,54	-4,26	0,0289	Akr1c13	Mus musculus aldo-keto reductase family 1, member C13 (Akr1c13), mRNA [NM_013778]
A_55_P2227335	-0,54	-3,63	0,0497	Ptpre	Mus musculus protein tyrosine phosphatase, receptor type, E (Ptpre), mRNA [NM_011212]
A_55_P2143095	-0,54	-3,63	0,0497	LOC102634533	PREDICTED: Mus musculus uncharacterized LOC102634533 (LOC102634533), transcript variant X1, ncRNA [XR_388308]
A_66_P102299	-0,54	-5,09	0,0146	Ascc1	Mus musculus activating signal cointegrator 1 complex subunit 1 (Ascc1), transcript variant 2, mRNA [NM_026937]
A_55_P2026823	-0,54	-5,01	0,0154	Usp11	Mus musculus ubiquitin specific peptidase like 1 (Usp11), transcript variant 1, mRNA [NM_001115153]
A_55_P1971347	-0,54	-4,17	0,0310	Mta3	Mus musculus metastasis associated 3 (Mta3), transcript variant 4, mRNA [NM_001171054]
A_51_P170696	-0,54	-5,00	0,0156	Haus1	Mus musculus HAUS augmin-like complex, subunit 1 (Haus1), mRNA [NM_146089]
A_55_P1986441	-0,54	-5,29	0,0123	Gcdh	Mus musculus glutaryl-Coenzyme A dehydrogenase (Gcdh), transcript variant 1, mRNA [NM_008097]
A_55_P2050688	-0,54	-5,11	0,0144	Zbed4	Mus musculus zinc finger, BED domain containing 4 (Zbed4), mRNA [NM_181412]
A_52_P202029	-0,54	-3,82	0,0416	Trak2	Mus musculus trafficking protein, kinesin binding 2 (Trak2), mRNA [NM_172406]
A_55_P2148531	-0,54	-4,43	0,0250	Pithd1	Mus musculus PITH (C-terminal proteasome-interacting domain of thioredoxin-like) domain containing 1 (Pithd1), mRNA [NM_025411]
A_55_P2097665	-0,54	-4,56	0,0224	Arl4a	Mus musculus ADP-ribosylation factor-like 4A (Arl4a), transcript variant 2, mRNA [NM_001039515]
A_51_P214306	-0,54	-4,54	0,0228	Haus4	Mus musculus HAUS augmin-like complex, subunit 4 (Haus4), mRNA [NM_145462]
A_52_P836852	-0,54	-4,51	0,0235	Txk	Mus musculus TXK tyrosine kinase (Txk), transcript variant 2, mRNA [NM_013698]

A_51_P509140	-0,54	-5,71	0,0092	U2af114	Mus musculus U2 small nuclear RNA auxiliary factor 1-like 4 (U2af114), mRNA [NM_170760]
A_51_P395842	-0,54	-4,91	0,0169	Timm21	Mus musculus tranlocase of inner mitochondrial membrane 21 (Timm21), mRNA [NM_025969]
A_51_P289588	-0,54	-5,07	0,0147	Ube2e3	Mus musculus ubiquitin-conjugating enzyme E2E 3 (Ube2e3), mRNA [NM_009454]
A_55_P2176917	-0,54	-4,40	0,0256	Gm6115	PREDICTED: Mus musculus predicted gene 6115 (Gm6115), mRNA [XM_006543113]
A_55_P2408588	-0,54	-4,31	0,0277	Arntl	Mus musculus aryl hydrocarbon receptor nuclear translocator-like (Arntl), transcript variant 1, mRNA [NM_007489]
A_51_P378009	-0,54	-4,41	0,0256	Blzf1	Mus musculus basic leucine zipper nuclear factor 1 (Blzf1), transcript variant 1, mRNA [NM_025505]
A_51_P290018	-0,54	-5,16	0,0138	Ddx3x	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked [Source:MGI Symbol;Acc:MGI:103064] [ENSUST0000000804]
A_52_P375493	-0,54	-4,54	0,0229	Tfdp1	Mus musculus transcription factor Dp 1 (Tfdp1), transcript variant 1, mRNA [NM_009361]
A_55_P2125496	-0,54	-4,15	0,0314	Gm10731	Mus musculus predicted gene 10731 (Gm10731), non-coding RNA [NR_045392]
A_55_P1991931	-0,54	-4,44	0,0248	Nosip	Mus musculus nitric oxide synthase interacting protein (Nosip), transcript variant 1, mRNA [NM_025533]
A_52_P254174	-0,54	-4,20	0,0302	Nr3c1	Mus musculus nuclear receptor subfamily 3, group C, member 1 (Nr3c1), mRNA [NM_008173]
A_55_P2088715	-0,54	-4,37	0,0264	Deb1	Mus musculus differentially expressed in B16F10 1 (Deb1), mRNA [NM_026794]
A_55_P2083997	-0,54	-3,76	0,0445	Zfp664	Mus musculus zinc finger protein 664 (Zfp664), mRNA [NM_001081750]
A_51_P380514	-0,54	-4,50	0,0237	Tjap1	Mus musculus tight junction associated protein 1 (Tjap1), transcript variant 1, mRNA [NM_028751]
A_52_P30877	-0,54	-3,99	0,0362	Gm5176	Mus musculus predicted gene 5176 (Gm5176), non-coding RNA [NR_033603]
A_51_P410744	-0,55	-3,95	0,0371	Dgke	Mus musculus diacylglycerol kinase, epsilon (Dgke), mRNA [NM_019505]
A_66_P128918	-0,55	-5,38	0,0115	Hacl1	Mus musculus 2-hydroxyacyl-CoA lyase 1 (Hacl1), mRNA [NM_019975]
A_55_P1975832	-0,55	-4,04	0,0345	1810009N02 Rik	Mus musculus RIKEN cDNA 1810009N02 gene (1810009N02Rik), mRNA [NM_026939]
A_51_P504588	-0,55	-5,31	0,0122	Tm2d2	Mus musculus TM2 domain containing 2 (Tm2d2), mRNA [NM_027194]
A_55_P1985758	-0,55	-5,26	0,0128	Psm9	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 9 (Psm9), mRNA [NM_026000]
A_55_P2367117	-0,55	-4,50	0,0236	Pitpnb	Mus musculus phosphatidylinositol transfer protein, beta (Pitpnb), mRNA [NM_019640]
A_55_P2001290	-0,55	-6,11	0,0069	Ube2e3	Mus musculus ubiquitin-conjugating enzyme E2E 3 (Ube2e3), mRNA [NM_009454]
A_51_P114177	-0,55	-6,68	0,0047	Eci3	Mus musculus enoyl-Coenzyme A delta isomerase 3 (Eci3), mRNA [NM_026947]
A_55_P2033600	-0,55	-5,38	0,0115	Stap1	Mus musculus signal transducing adaptor family member 1 (Stap1), mRNA [NM_019992]
A_51_P473272	-0,55	-4,49	0,0239	Tspan6	Mus musculus tetraspanin 6 (Tspan6), mRNA [NM_019656]
A_51_P194306	-0,55	-4,94	0,0163	Lrrc1	Mus musculus leucine rich repeat containing 1 (Lrrc1), transcript variant 2, mRNA [NM_172528]
A_52_P316644	-0,55	-5,32	0,0121	Bet1	Mus musculus blocked early in transport 1 homolog (S. cerevisiae) (Bet1), mRNA [NM_009748]
A_51_P219385	-0,55	-3,81	0,0421	Six5	Mus musculus sine oculis-related homeobox 5 (Six5), mRNA [NM_011383]
A_66_P111301	-0,55	-5,49	0,0106	Mplkip	Mus musculus M-phase specific PLK1 interacting protein (Mplkip), mRNA [NM_025479]
A_55_P2129925	-0,55	-3,98	0,0363	Mybl2	Mus musculus myeloblastosis oncogene-like 2 (Mybl2), mRNA [NM_008652]
A_51_P338485	-0,55	-3,96	0,0369	Aldh6a1	Mus musculus aldehyde dehydrogenase family 6, subfamily A1 (Aldh6a1), mRNA [NM_134042]
A_51_P251717	-0,55	-5,28	0,0126	I7Rn6	Mus musculus lethal, Chr 7, Rinchik 6 (I7Rn6), transcript variant 1, mRNA [NM_026304]
A_51_P368009	-0,55	-5,18	0,0137	E2f2	Mus musculus E2F transcription factor 2 (E2f2), mRNA [NM_177733]
A_55_P2112947	-0,55	-3,98	0,0365	Srp9	Mus musculus signal recognition particle 9 (Srp9), mRNA [NM_012058]
A_55_P2006615	-0,55	-3,72	0,0462	Rbbp9	Mus musculus retinoblastoma binding protein 9 (Rbbp9), mRNA [NM_015754]
A_51_P265545	-0,55	-5,43	0,0111	Tmem57	Mus musculus transmembrane protein 57 (Tmem57), mRNA [NM_025382]
A_51_P315795	-0,55	-6,13	0,0069	Tubb4a	Mus musculus tubulin, beta 4A class IVA (Tubb4a), mRNA [NM_009451]
A_55_P1976490	-0,55	-5,68	0,0094	Lman2l	Mus musculus lectin, mannose-binding 2-like (Lman2l), mRNA [NM_001013374]
A_51_P130666	-0,55	-4,63	0,0210	Adk	Mus musculus adenosine kinase (Adk), transcript variant 1, mRNA [NM_134079]
A_65_P06611	-0,55	-5,04	0,0151	Wtap	Mus musculus Wilms tumour 1-associating protein (Wtap), transcript variant 2, mRNA [NM_175394]
A_51_P113003	-0,55	-5,80	0,0086	Cenpq	Mus musculus centromere protein Q (Cenpq), mRNA [NM_031863]
A_55_P2145982	-0,55	-4,72	0,0194	D1Ert448e	Mus musculus bone marrow macrophage cDNA, RIKEN full-length enriched library, clone:G530004B13 product:hypothetical protein, full insert sequence: [AK149623]
A_66_P129852	-0,56	-4,78	0,0185	Fxn	Mus musculus frataxin (Fxn), mRNA [NM_008044]
A_52_P251183	-0,56	-4,07	0,0337	Tmem177	Mus musculus transmembrane protein 177 (Tmem177), mRNA [NM_175106]
A_51_P330213	-0,56	-4,57	0,0224	Asf1b	Mus musculus ASF1 anti-silencing function 1 homolog B (S. cerevisiae) (Asf1b), mRNA [NM_024184]
A_55_P2151822	-0,56	-3,98	0,0364	Plxnd1	Mus musculus plexin D1 (Plxnd1), mRNA [NM_026376]
A_52_P475040	-0,56	-3,82	0,0418	Etaa1	Mus musculus Ewing tumor-associated antigen 1 (Etaa1), mRNA [NM_026576]



A_51_P228276	-0,56	-4,68	0,0200	Gbas	Mus musculus glioblastoma amplified sequence (Gbas), mRNA [NM_008095]
A_51_P184197	-0,56	-6,10	0,0069	Smardc2	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2 (Smardc2), transcript variant 2, mRNA [NM_031878]
A_51_P342652	-0,56	-5,14	0,0140	Cd79b	Mus musculus CD79B antigen (Cd79b), mRNA [NM_008339]
A_52_P491861	-0,56	-4,41	0,0256	Stag1	Mus musculus stromal antigen 1 (Stag1), mRNA [NM_009282]
A_55_P2000623	-0,56	-5,89	0,0081	Stag1	Mus musculus stromal antigen 1 (Stag1), mRNA [NM_009282]
A_55_P2070657	-0,56	-4,05	0,0345	Emc10	Mus musculus ER membrane protein complex subunit 10 (Emc10), mRNA [NM_197991]
A_55_P2184541	-0,56	-4,39	0,0259	Cdadc1	Mus musculus cytidine and dCMP deaminase domain containing 1 (Cdadc1), transcript variant 2, mRNA [NM_027986]
A_55_P2018106	-0,56	-3,82	0,0418	Gm14085	Mus musculus predicted gene 14085 (Gm14085), mRNA [NM_001085518]
A_55_P1983988	-0,56	-3,85	0,0404	Enox2	Mus musculus ecto-NOX disulfide-thiol exchanger 2 (Enox2), transcript variant 1, mRNA [NM_001271447]
A_51_P220162	-0,56	-3,72	0,0459	Notch3	Mus musculus notch 3 (Notch3), mRNA [NM_008716]
A_55_P2045476	-0,56	-5,56	0,0101	Hmgxb4	Mus musculus HMG box domain containing 4 (Hmgxb4), mRNA [NM_178017]
A_55_P1980311	-0,56	-4,38	0,0261	Pcbp2	Mus musculus poly(rC) binding protein 2 (Pcbp2), transcript variant 1, mRNA [NM_001103165]
A_55_P1998656	-0,56	-4,53	0,0231	Entpd5	Mus musculus ectonucleoside triphosphate diphosphohydrolase 5 (Entpd5), transcript variant 2, mRNA [NM_001026214]
A_66_P124817	-0,56	-4,53	0,0231	Ing1	Mus musculus inhibitor of growth family, member 1 (Ing1), mRNA [NM_011919]
A_51_P407675	-0,56	-4,76	0,0188	Zrsr1	Mus musculus zinc finger (CCCH type), RNA binding motif and serine/arginine rich 1 (Zrsr1), mRNA [NM_011663]
A_66_P118233	-0,56	-4,49	0,0237	Hnrnpa0	Mus musculus heterogeneous nuclear ribonucleoprotein A0 (Hnrnpa0), mRNA [NM_029872]
A_66_P101631	-0,56	-3,77	0,0441	Zfp27	Mus musculus zinc finger protein 27 (Zfp27), transcript variant 3, mRNA [NM_001285797]
A_55_P1976682	-0,56	-5,33	0,0120	4932431P20 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4932431P20 product:nonhistone chromosomal protein HMG-1 homolog [Bos primigenius taurus], full insert sequence. [AK016539]
A_51_P328133	-0,56	-4,09	0,0335	Gle1	Mus musculus GLE1 RNA export mediator (yeast) (Gle1), mRNA [NM_028923]
A_55_P2068731	-0,56	-3,94	0,0374	Gm20878	Mus musculus predicted gene, 20878 (Gm20878), mRNA [NM_001270431]
A_55_P1970578	-0,56	-4,21	0,0299	Aamdc	Mus musculus adipogenesis associated Mth938 domain containing (Aamdc), transcript variant 1, mRNA [NM_001177945]
A_55_P2047673	-0,56	-3,85	0,0407	Srr	Mus musculus serine racemase (Srr), transcript variant 1, mRNA [NM_013761]
A_55_P1996329	-0,56	-5,33	0,0120	Kat5	Mus musculus K(lysine) acetyltransferase 5 (Kat5), transcript variant 1, mRNA [NM_178637]
A_55_P2117630	-0,56	-4,38	0,0261	Snrnp25	Mus musculus small nuclear ribonucleoprotein 25 (U11/U12) (Snrnp25), mRNA [NM_030093]
A_66_P120484	-0,56	-5,17	0,0138	Mbtd1	Mus musculus mbt domain containing 1 (Mbtd1), mRNA [NM_134012]
A_66_P133204	-0,56	-4,56	0,0224	Ankrd50	ankyrin repeat domain 50 [Source:MGI Symbol;Acc:MGI:2139777] [ENSMUST00000094300]
A_55_P2042062	-0,57	-3,76	0,0444	Mier1	Mus musculus mesoderm induction early response 1 homolog (Xenopus laevis) (Mier1), transcript variant 1, mRNA [NM_027696]
A_55_P2151138	-0,57	-4,12	0,0326	Dynlt1f	Mus musculus dynein light chain Tctex-type 1F (Dynlt1f), transcript variant 2, mRNA [NM_001199948]
A_51_P270891	-0,57	-3,85	0,0404	1700056E22 Rik	Mus musculus RIKEN cDNA 1700056E22 gene (1700056E22Rik), mRNA [NM_028516]
A_55_P2024858	-0,57	-5,68	0,0093	Fars2	Mus musculus phenylalanine-tRNA synthetase 2 (mitochondrial) (Fars2), transcript variant 1, mRNA [NM_024274]
A_55_P2145531	-0,57	-4,31	0,0276	Mpst	Mus musculus mercaptopyruvate sulfurtransferase (Mpst), transcript variant 1, mRNA [NM_138670]
A_55_P2149951	-0,57	-4,52	0,0234	Prx	Mus musculus periaxin (Prx), transcript variant 2, mRNA [NM_019412]
A_55_P1961531	-0,57	-3,74	0,0451	Tmem194	Mus musculus transmembrane protein 194 (Tmem194), transcript variant 1, mRNA [NM_001113211]
A_51_P195573	-0,57	-4,86	0,0176	Dnmt1	Mus musculus DNA methyltransferase (cytosine-5) 1 (Dnmt1), transcript variant 2, mRNA [NM_010066]
A_51_P442053	-0,57	-4,71	0,0197	Ptdss1	Mus musculus phosphatidylserine synthase 1 (Ptdss1), mRNA [NM_008959]
A_52_P116628	-0,57	-3,88	0,0394	8430419L09 Rik	Mus musculus RIKEN cDNA 8430419L09 gene (8430419L09Rik), mRNA [NM_028982]
A_51_P393067	-0,57	-3,67	0,0478	Ap4m1	Mus musculus adaptor-related protein complex AP-4, mu 1 (Ap4m1), mRNA [NM_021392]
A_55_P2091631	-0,57	-3,67	0,0479	Coa4	Mus musculus cytochrome c oxidase assembly factor 4 (Coa4), mRNA [NM_183270]
A_51_P121466	-0,57	-5,13	0,0141	Tab1	Mus musculus TGF-beta activated kinase 1/MAP3K7 binding protein 1 (Tab1), mRNA [NM_025609]
A_55_P2148744	-0,57	-5,95	0,0077	Gm6625	PREDICTED: Mus musculus predicted gene 6625 (Gm6625), transcript variant X1, mRNA [XM_006531543]
A_51_P370341	-0,57	-6,38	0,0058	Zbtb48	Mus musculus zinc finger and BTB domain containing 48 (Zbtb48), mRNA [NM_133879]
A_55_P1974671	-0,57	-5,18	0,0137	Sft2d1	Mus musculus SFT2 domain containing 1 (Sft2d1), mRNA [NM_134114]
A_51_P105068	-0,57	-5,07	0,0147	Lypd6b	Mus musculus LY6/PLAUR domain containing 6B (Lypd6b), mRNA [NM_027990]
A_66_P139664	-0,57	-4,46	0,0243	Ppp2r5c	Mus musculus protein phosphatase 2, regulatory subunit B', gamma (Ppp2r5c), transcript variant 4, mRNA [NM_001135001]
A_51_P394190	-0,57	-5,05	0,0149	Lmo4	Mus musculus LIM domain only 4 (Lmo4), transcript variant 1, mRNA [NM_010723]
A_51_P337856	-0,57	-4,15	0,0316	Ubl7	Mus musculus ubiquitin-like 7 (bone marrow stromal cell-derived) (Ubl7), transcript variant 2, mRNA [NM_027086]

A_52_P595642	-0,57	-3,81	0,0424	Smim7	Mus musculus small integral membrane protein 7 (Smim7), mRNA [NM_172396]
A_52_P442676	-0,57	-6,40	0,0057	Cux1	Mus musculus cut-like homeobox 1 (Cux1), transcript variant 2, mRNA [NM_198602]
A_52_P28806	-0,57	-5,03	0,0152	Foxm1	Mus musculus forkhead box M1 (Foxm1), mRNA [NM_008021]
A_52_P114282	-0,57	-4,86	0,0176	Armcx5	Mus musculus armadillo repeat containing, X-linked 5 (Armcx5), mRNA [NM_001009575]
A_55_P1978201	-0,57	-3,88	0,0394	Incenp	Mus musculus inner centromere protein (Incenp), mRNA [NM_016692]
A_51_P121275	-0,58	-5,09	0,0146	Cenpo	Mus musculus centromere protein O (Cenpo), mRNA [NM_134046]
A_51_P392861	-0,58	-4,85	0,0176	Med25	Mus musculus mediator complex subunit 25 (Med25), mRNA [NM_029365]
A_55_P2033660	-0,58	-5,09	0,0146	Crls1	Mus musculus cardiolipin synthase 1 (Crls1), transcript variant 1, mRNA [NM_001024385]
A_55_P2089080	-0,58	-5,29	0,0123	Ssbp2	Mus musculus single-stranded DNA binding protein 2 (Ssbp2), transcript variant 2, mRNA [NM_024272]
A_65_P01319	-0,58	-5,40	0,0114	Pde4b	Mus musculus phosphodiesterase 4B, cAMP specific (Pde4b), transcript variant 1, mRNA [NM_019840]
A_52_P410732	-0,58	-5,48	0,0107	Cnot7	Mus musculus CCR4-NOT transcription complex, subunit 7 (Cnot7), transcript variant 1, mRNA [NM_011135]
A_51_P431996	-0,58	-4,47	0,0240	Zfp367	Mus musculus zinc finger protein 367 (Zfp367), mRNA [NM_175494]
A_51_P406429	-0,58	-4,31	0,0277	Pdk1	Mus musculus pyruvate dehydrogenase kinase, isoenzyme 1 (Pdk1), mRNA [NM_172665]
A_52_P484118	-0,58	-4,12	0,0326	Urb2	Mus musculus URB2 ribosome biogenesis 2 homolog (S. cerevisiae) (Urb2), mRNA [NM_001029876]
A_51_P278489	-0,58	-4,35	0,0268	Itfg2	Mus musculus integrin alpha FG-GAP repeat containing 2 (Itfg2), mRNA [NM_133927]
A_55_P1972720	-0,58	-5,43	0,0111	Pmm1	Mus musculus phosphomannomutase 1 (Pmm1), transcript variant 1, mRNA [NM_013872]
A_55_P1989772	-0,58	-5,33	0,0120	Sqrdl	Mus musculus sulfide quinone reductase-like (yeast) (Sqrdl), transcript variant 1, mRNA [NM_021507]
A_55_P2029417	-0,58	-4,27	0,0285	2610318N02 Rik	Mus musculus RIKEN cDNA 2610318N02 gene (2610318N02Rik), mRNA [NM_183287]
A_51_P482711	-0,58	-4,62	0,0214	Dhcr24	Mus musculus 24-dehydrocholesterol reductase (Dhcr24), mRNA [NM_053272]
A_55_P2151751	-0,58	-5,43	0,0111	Matr3	Mus musculus matrin 3 (Matr3), mRNA [NM_010771]
A_52_P46742	-0,58	-5,83	0,0084	Dffb	Mus musculus DNA fragmentation factor, beta subunit (Dffb), mRNA [NM_007859]
A_55_P2145401	-0,58	-4,70	0,0197	Hist1h3c	Mus musculus histone cluster 1, H3c (Hist1h3c), mRNA [NM_175653]
A_55_P2139625	-0,58	-6,44	0,0055	Gtf2a2	Mus musculus general transcription factor II A, 2 (Gtf2a2), transcript variant 1, mRNA [NM_001282083]
A_52_P66313	-0,58	-4,43	0,0250	Psmf1	Mus musculus proteasome (prosome, macropain) inhibitor subunit 1 (Psmf1), mRNA [NM_212446]
A_55_P1957419	-0,58	-4,06	0,0341	Ensa	Mus musculus endosulfine alpha (Ensa), transcript variant 1, mRNA [NM_019561]
A_55_P2018706	-0,58	-4,46	0,0243	Cep19	Mus musculus centrosomal protein 19 (Cep19), mRNA [NM_025892]
A_52_P646755	-0,58	-4,79	0,0185	Tex30	Mus musculus testis expressed 30 (Tex30), mRNA [NM_029368]
A_55_P2117525	-0,58	-7,03	0,0038	Rbm3	Mus musculus RNA binding motif protein 3 (Rbm3), transcript variant 3, mRNA [NM_001166410]
A_55_P2160323	-0,58	-4,04	0,0346	Anapc15	anaphase promoting complex C subunit 15 [Source:MGI Symbol;Acc:MGI:1922680] [ENSIMUST00000131269]
A_51_P348325	-0,58	-6,60	0,0049	Poc1b	Mus musculus POC1 centriolar protein homolog B (Chlamydomonas) (Poc1b), mRNA [NM_027740]
A_55_P2118362	-0,58	-5,34	0,0120	Tmem121	Mus musculus transmembrane protein 121 (Tmem121), mRNA [NM_153776]
A_55_P2121913	-0,58	-5,77	0,0087	Adi1	Mus musculus acireductone dioxygenase 1 (Adi1), mRNA [NM_134052]
A_55_P2172274	-0,58	-5,69	0,0093	Smc2	Mus musculus structural maintenance of chromosomes 2 (Smc2), mRNA [NM_008017]
A_52_P229320	-0,58	-4,36	0,0266	Rptor	Mus musculus regulatory associated protein of MTOR, complex 1 (Rptor), mRNA [NM_028898]
A_66_P134785	-0,58	-4,10	0,0330	2610044015 Rik8	Mus musculus RIKEN cDNA 2610044015 gene (2610044015Rik8), mRNA [NM_153780]
A_55_P1997086	-0,59	-4,63	0,0210	Pknx1	Mus musculus Pbx/knotted 1 homeobox (Pknx1), transcript variant 1, mRNA [NM_016670]
A_66_P122290	-0,59	-3,87	0,0399	Mettl8	Mus musculus methyltransferase like 8 (Mettl8), transcript variant a, mRNA [NM_145524]
A_55_P2122066	-0,59	-4,16	0,0312	Ppp2r3d	Mus musculus protein phosphatase 2 (formerly 2A), regulatory subunit B", delta (Ppp2r3d), transcript variant 1, mRNA [NM_001163415]
A_51_P449911	-0,59	-4,09	0,0335	Cnot6	Mus musculus CCR4-NOT transcription complex, subunit 6 (Cnot6), transcript variant 2, mRNA [NM_212484]
A_51_P223946	-0,59	-3,65	0,0491	Pds5b	Mus musculus PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae) (Pds5b), mRNA [NM_175310]
A_55_P1994997	-0,59	-4,44	0,0249	Arhgap11a	Mus musculus Rho GTPase activating protein 11A (Arhgap11a), mRNA [NM_181416]
A_55_P2009091	-0,59	-5,64	0,0096	Mad11l	Mus musculus MAD1 mitotic arrest deficient 1-like 1 (Mad11l), mRNA [NM_010752]
A_55_P2108773	-0,59	-4,01	0,0356	4930427A07 Rik	Mus musculus RIKEN cDNA 4930427A07 gene (4930427A07Rik), mRNA [NM_134041]
A_52_P500077	-0,59	-5,32	0,0121	Zfp551	Mus musculus zinc finger protein 551 (Zfp551), mRNA [NM_001033820]
A_52_P354373	-0,59	-4,81	0,0181	1190002F15 Rik	Mus musculus RIKEN cDNA 1190002F15 gene (1190002F15Rik), transcript variant 1, long non-coding RNA [NR_037956]
A_55_P2032363	-0,59	-4,00	0,0359	Tomm40l	Mus musculus translocase of outer mitochondrial membrane 40 homolog-like (yeast) (Tomm40l), mRNA [NM_001037170]
A_55_P2158011	-0,59	-4,11	0,0328	Knstrn	Mus musculus kinetochore-localized astrin/SPAG5 binding (Knstrn), mRNA [NM_026412]

A_51_P151371	-0,59	-3,76	0,0443	Zfp444	Mus musculus zinc finger protein 444 (Zfp444), transcript variant 2, mRNA [NM_028316]
A_55_P2006911	-0,59	-4,20	0,0303	Pik3c3	Mus musculus phosphoinositide-3-kinase, class 3 (Pik3c3), mRNA [NM_181414]
A_52_P401640	-0,59	-4,43	0,0250	Bpgm	Mus musculus 2,3-bisphosphoglycerate mutase (Bpgm), mRNA [NM_007563]
A_51_P161874	-0,59	-6,18	0,0066	Med30	Mus musculus mediator complex subunit 30 (Med30), mRNA [NM_027212]
A_52_P658437	-0,59	-4,35	0,0268	Espl1	Mus musculus extra spindle pole bodies 1 (S. cerevisiae) (Espl1), mRNA [NM_001014976]
A_52_P244193	-0,59	-5,69	0,0093	Cd24a	Mus musculus CD24a antigen (Cd24a), mRNA [NM_009846]
A_55_P2054883	-0,59	-3,71	0,0465	Trappc1	trafficking protein particle complex 1 [Source:MGI Symbol;Acc:MGI:1098727] [ENSMUST0000060956]
A_55_P2111293	-0,59	-4,46	0,0244	3110009E18 Rik	Mus musculus RIKEN cDNA 3110009E18 gene (3110009E18Rik), transcript variant 1, mRNA [NM_028439]
A_55_P1974855	-0,59	-6,54	0,0052	Zfp868	Mus musculus zinc finger protein 868 (Zfp868), transcript variant 1, mRNA [NM_172754]
A_55_P2001073	-0,59	-4,40	0,0256	Arid2	Mus musculus AT rich interactive domain 2 (ARID, RFX-like) (Arid2), mRNA [NM_175251]
A_51_P315673	-0,59	-5,03	0,0152	Usp11	Mus musculus ubiquitin specific peptidase 11 (Usp11), mRNA [NM_145628]
A_55_P2074226	-0,59	-5,47	0,0108	Fbxo8	Mus musculus F-box protein 8 (Fbxo8), mRNA [NM_015791]
A_52_P323658	-0,59	-4,12	0,0325	Zfp955a	Mus musculus zinc finger protein 955A (Zfp955a), mRNA [NM_029952]
A_52_P381929	-0,59	-4,50	0,0236	Ubqln2	Mus musculus ubiquilin 2 (Ubqln2), mRNA [NM_018798]
A_55_P2030938	-0,59	-4,98	0,0158	Trim59	Mus musculus tripartite motif-containing 59 (Trim59), mRNA [NM_025863]
A_55_P1974204	-0,59	-5,86	0,0082	Fam172a	Mus musculus family with sequence similarity 172, member A (Fam172a), transcript variant 1, mRNA [NM_138312]
A_66_P136097	-0,59	-3,66	0,0484	Trim13	Mus musculus tripartite motif-containing 13 (Trim13), transcript variant 1, mRNA [NM_001164220]
A_55_P2118103	-0,59	-4,61	0,0215	Zfp68	Mus musculus zinc finger protein 68 (Zfp68), transcript variant 1, mRNA [NM_013844]
A_55_P1974788	-0,59	-5,69	0,0093	Cfl1	Mus musculus cofilin 1, non-muscle (Cfl1), mRNA [NM_007687]
A_52_P90124	-0,59	-6,36	0,0058	Prep	Mus musculus prolyl endopeptidase (Prep), mRNA [NM_011156]
A_52_P522222	-0,59	-4,68	0,0200	3110067C02 Rik	Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:B930081J03 product:weakly similar to NY-REN-37 ANTIGEN (FRAGMENT) [Homo sapiens], full insert sequence. [AK081077]
A_55_P2184905	-0,59	-3,95	0,0373	Rpap2	Mus musculus RNA polymerase II associated protein 2 (Rpap2), transcript variant 4, mRNA [NM_001289569]
A_55_P2028491	-0,59	-5,71	0,0091	Hmgn2	Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]
A_55_P2048840	-0,59	-5,62	0,0097	Ppil2	Mus musculus peptidylprolyl isomerase (cyclophilin)-like 2 (Ppil2), transcript variant 3, mRNA [NM_001252445]
A_52_P533779	-0,60	-3,79	0,0429	Ankrd40	Mus musculus ankyrin repeat domain 40 (Ankrd40), transcript variant 1, mRNA [NM_027799]
A_51_P391445	-0,60	-5,61	0,0097	Ifngr1	Mus musculus interferon gamma receptor 1 (Ifngr1), mRNA [NM_010511]
A_51_P145772	-0,60	-4,68	0,0200	Rnf113a2	Mus musculus ring finger protein 113A2 (Rnf113a2), mRNA [NM_025525]
A_51_P513785	-0,60	-6,14	0,0068	Ctcf	Mus musculus CCCTC-binding factor (Ctcf), mRNA [NM_181322]
A_55_P2004258	-0,60	-4,73	0,0193	Gm7102	Mus musculus predicted gene 7102 (Gm7102), mRNA [NM_001177513]
A_55_P2031192	-0,60	-4,14	0,0320	Gtdc1	Mus musculus glycosyltransferase-like domain containing 1 (Gtdc1), mRNA [NM_172662]
A_55_P2066076	-0,60	-4,61	0,0215	Prmt6	Mus musculus protein arginine N-methyltransferase 6 (Prmt6), transcript variant 2, long non-coding RNA [NR_024139]
A_51_P425833	-0,60	-5,81	0,0086	Lztf1	Mus musculus leucine zipper transcription factor-like 1 (Lztf1), mRNA [NM_033322]
A_51_P165704	-0,60	-5,51	0,0105	Mcm7	Mus musculus minichromosome maintenance deficient 7 (S. cerevisiae) (Mcm7), mRNA [NM_008568]
A_52_P189132	-0,60	-5,68	0,0093	Thap1	Mus musculus THAP domain containing, apoptosis associated protein 1 (Thap1), mRNA [NM_199042]
A_55_P2148082	-0,60	-5,52	0,0104	Larp7	Mus musculus La ribonucleoprotein domain family, member 7 (Larp7), mRNA [NM_138593]
A_51_P265106	-0,60	-3,96	0,0368	Dlat	Mus musculus dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenase complex) (Dlat), mRNA [NM_145614]
A_52_P110257	-0,60	-6,25	0,0063	Wdr83	Mus musculus WD repeat domain containing 83 (Wdr83), mRNA [NM_026399]
A_55_P1952186	-0,60	-4,29	0,0282	2810403A07 Rik	Mus musculus RIKEN cDNA 2810403A07 gene (2810403A07Rik), mRNA [NM_028814]
A_52_P510215	-0,60	-4,74	0,0192	Traf6	Mus musculus TNF receptor-associated factor 6 (Traf6), mRNA [NM_009424]
A_66_P135176	-0,60	-4,27	0,0285	Trak2	Mus musculus trafficking protein, kinesin binding 2 (Trak2), mRNA [NM_172406]
A_55_P1995507	-0,60	-4,69	0,0199	Aqp11	Mus musculus aquaporin 11 (Aqp11), mRNA [NM_175105]
A_55_P1987761	-0,60	-3,91	0,0384	Prkcz	Mus musculus protein kinase C, zeta (Prkcz), transcript variant 1, mRNA [NM_008860]
A_52_P80593	-0,60	-4,87	0,0174	Pole3	polymerase (DNA directed), epsilon 3 (p17 subunit) [Source:MGI Symbol;Acc:MGI:1933378] [ENSMUST00000128100]
A_55_P2062836	-0,60	-5,19	0,0136	Ttf2	Mus musculus transcription termination factor, RNA polymerase II (Ttf2), mRNA [NM_001013026]
A_52_P113672	-0,60	-3,84	0,0410	Chml	Mus musculus choroideremia-like (Chml), mRNA [NM_021350]
A_51_P435068	-0,60	-6,01	0,0074	Acadsb	Mus musculus acyl-Coenzyme A dehydrogenase, short/branched chain (Acadsb), mRNA [NM_025826]



A_55_P2011659	-0,60	-6,68	0,0047	Anapc5	Mus musculus anaphase-promoting complex subunit 5 (Anapc5), transcript variant 1, mRNA [NM_021505]
A_51_P142046	-0,60	-3,81	0,0424	Oxld1	Mus musculus oxidoreductase like domain containing 1 (Oxld1), mRNA [NM_025560]
A_55_P2011647	-0,60	-5,61	0,0097	5031425E22 Rik	Mus musculus RIKEN cDNA 5031425E22 gene (5031425E22Rik), long non-coding RNA [NR_040469]
A_55_P1970507	-0,60	-7,04	0,0038	Pef1	Mus musculus penta-EF hand domain containing 1 (Pef1), mRNA [NM_026441]
A_55_P1989986	-0,60	-5,17	0,0138	Fam149b	Mus musculus family with sequence similarity 149, member B (Fam149b), transcript variant 2, mRNA [NM_172379]
A_52_P121	-0,60	-7,45	0,0030	Osgepl1	Mus musculus O-sialoglycoprotein endopeptidase-like 1 (Osgepl1), transcript variant 1, mRNA [NM_001285839]
A_51_P185509	-0,60	-4,74	0,0192	Mapre1	Mus musculus microtubule-associated protein, RP/EB family, member 1 (Mapre1), mRNA [NM_007896]
A_51_P348397	-0,60	-4,28	0,0284	Hexim1	Mus musculus hexamethylene bis-acetamide inducible 1 (Hexim1), mRNA [NM_138753]
A_51_P408071	-0,60	-4,04	0,0346	Kntc1	Mus musculus kinetochore associated 1 (Kntc1), mRNA [NM_001042421]
A_51_P340816	-0,60	-3,81	0,0422	Ipp	Mus musculus IAP promoted placental gene (Ipp), mRNA [NM_008389]
A_52_P237669	-0,60	-4,50	0,0236	Nup54	Mus musculus nucleoporin 54 (Nup54), mRNA [NM_183392]
A_52_P179238	-0,61	-4,77	0,0187	H2afy	Mus musculus H2A histone family, member Y (H2afy), transcript variant 3, mRNA [NM_001159514]
A_52_P445828	-0,61	-5,80	0,0086	Abcf2	Mus musculus ATP-binding cassette, sub-family F (GCN20), member 2 (Abcf2), transcript variant 1, mRNA [NM_013853]
A_51_P311694	-0,61	-4,26	0,0289	Ypel5	Mus musculus yippee-like 5 (Drosophila) (Ypel5), mRNA [NM_027166]
A_51_P180140	-0,61	-3,83	0,0414	Hist1h2ba	Mus musculus histone cluster 1, H2ba (Hist1h2ba), mRNA [NM_175663]
A_55_P2056493	-0,61	-5,24	0,0129	Tk1	thymidine kinase 1 [Source:MGI Symbol;Acc:MGI:98763] [ENSMUST00000153298]
A_52_P437734	-0,61	-5,10	0,0145	Fbxo28	Mus musculus F-box protein 28 (Fbxo28), mRNA [NM_175127]
A_51_P349023	-0,61	-5,73	0,0091	Lsm3	Mus musculus LSM3 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm3), mRNA [NM_026309]
A_52_P464062	-0,61	-3,88	0,0393	Hdac8	Mus musculus histone deacetylase 8 (Hdac8), mRNA [NM_027382]
A_55_P2110290	-0,61	-4,33	0,0273	Tmem254a	Mus musculus transmembrane protein 254a (Tmem254a), transcript variant 1, mRNA [NM_026679]
A_51_P497317	-0,61	-4,17	0,0309	Tcp11l2	Mus musculus t-complex 11 (mouse) like 2 (Tcp11l2), mRNA [NM_146008]
A_55_P1990964	-0,61	-5,51	0,0105	Osbpl11	Mus musculus oxysterol binding protein-like 11 (Osbpl11), mRNA [NM_176840]
A_55_P1977330	-0,61	-4,09	0,0335	Zbtb1	Mus musculus zinc finger and BTB domain containing 1 (Zbtb1), mRNA [NM_178744]
A_52_P84353	-0,61	-4,00	0,0359	Homez	Mus musculus homeodomain leucine zipper-encoding gene (Homez), transcript variant 2, mRNA [NM_183174]
A_55_P2152427	-0,61	-4,34	0,0270	Zwilch	Mus musculus zwilch kinetochore protein (Zwilch), mRNA [NM_026507]
A_51_P463828	-0,61	-3,69	0,0471	Baz1b	Mus musculus bromodomain adjacent to zinc finger domain, 1B (Baz1b), mRNA [NM_011714]
A_52_P138598	-0,61	-4,07	0,0339	Pum2	Mus musculus pumilio RNA-binding family member 2 (Pum2), transcript variant 1, mRNA [NM_001160219]
A_52_P192307	-0,61	-4,09	0,0335	Rbak	Mus musculus RB-associated KRAB repressor (Rbak), transcript variant 1, mRNA [NM_021326]
A_55_P2130792	-0,61	-3,96	0,0369	Tuft1	Mus musculus tuftelin 1 (Tuft1), mRNA [NM_011656]
A_55_P1992079	-0,61	-4,60	0,0217	Ptpfrf	Mus musculus protein tyrosine phosphatase, receptor type, F (Ptpfrf), mRNA [NM_011213]
A_52_P247943	-0,61	-5,08	0,0147	Parl	Mus musculus presenilin associated, rhomboid-like (Parl), mRNA [NM_001005767]
A_55_P2043996	-0,61	-3,64	0,0496	Cops7a	Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 7a (Arabidopsis thaliana) (Cops7a), transcript variant 2, mRNA [NM_001164089]
A_55_P2354531	-0,61	-5,27	0,0126	2610029K11 Rik	Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2610029K11 product:unclassifiable, full insert sequence. [AK011616]
A_55_P1960901	-0,61	-3,65	0,0491	Tgfr1	transforming growth factor, beta receptor I [Source:MGI Symbol;Acc:MGI:98728] [ENSMUST00000126171]
A_55_P2038972	-0,61	-3,84	0,0408	Erich1	Mus musculus glutamate rich 1 (Erich1), mRNA [NM_001034862]
A_52_P6798	-0,61	-3,76	0,0442	Rbm22	Mus musculus RNA binding motif protein 22 (Rbm22), mRNA [NM_025776]
A_65_P03606	-0,61	-4,67	0,0202	Rpap2	Mus musculus RNA polymerase II associated protein 2 (Rpap2), transcript variant 3, mRNA [NM_001163462]
A_52_P582555	-0,61	-3,86	0,0401	Rbm48	Mus musculus RNA binding motif protein 48 (Rbm48), mRNA [NM_172991]
A_51_P219849	-0,61	-4,71	0,0196	Alg13	Mus musculus asparagine-linked glycosylation 13 (Alg13), transcript variant 1, mRNA [NM_026247]
A_55_P2020461	-0,61	-4,74	0,0192	Hmgn2	Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]
A_51_P168632	-0,61	-4,74	0,0192	Prim1	Mus musculus DNA primase, p49 subunit (Prim1), mRNA [NM_008921]
A_55_P1963454	-0,61	-5,39	0,0115	Cenpq	Mus musculus centromere protein Q (Cenpq), mRNA [NM_031863]
A_55_P2008417	-0,61	-5,23	0,0131	Mnd1	Mus musculus meiotic nuclear divisions 1 homolog (S. cerevisiae) (Mnd1), mRNA [NM_029797]
A_52_P498355	-0,61	-5,32	0,0121	Lyrn4	Mus musculus LYR motif containing 4 (Lyrn4), mRNA [NM_201358]
A_55_P2035579	-0,61	-3,66	0,0487	LOC102639918	PREDICTED: Mus musculus uncharacterized LOC102639918 (LOC102639918), transcript variant X1, ncRNA [XR_385233]
A_55_P2105820	-0,61	-5,36	0,0118	Tbc1d31	Mus musculus TBC1 domain family, member 31 (Tbc1d31), transcript variant 1, mRNA [NM_001081396]

A_55_P2111292	-0,62	-4,72	0,0194	3110009E18 Rik	Mus musculus RIKEN cDNA 3110009E18 gene (3110009E18Rik), transcript variant 2, mRNA [NM_001172074]
A_51_P457492	-0,62	-5,86	0,0082	Tmem223	Mus musculus transmembrane protein 223 (Tmem223), mRNA [NM_025791]
A_51_P332136	-0,62	-6,30	0,0061	Zmat5	Mus musculus zinc finger, matrin type 5 (Zmat5), mRNA [NM_026015]
A_51_P263100	-0,62	-5,80	0,0086	Actr1b	Mus musculus ARP1 actin-related protein 1B, contractin beta (Actr1b), mRNA [NM_146107]
A_55_P2023441	-0,62	-3,96	0,0368	Elp4	Mus musculus elongation protein 4 homolog (S. cerevisiae) (Elp4), mRNA [NM_023876]
A_51_P101573	-0,62	-6,65	0,0048	Klc4	Mus musculus kinesin light chain 4 (Klc4), mRNA [NM_029091]
A_55_P2029842	-0,62	-5,32	0,0121	Hnrnpa1	Mus musculus heterogeneous nuclear ribonucleoprotein A1 (Hnrnpa1), transcript variant 2, mRNA [NM_001039129]
A_55_P2050426	-0,62	-5,72	0,0091	Ankrd50	Mus musculus ankyrin repeat domain 50 (Ankrd50), mRNA [NM_001167883]
A_52_P664617	-0,62	-5,18	0,0137	Zfp472	Mus musculus zinc finger protein 472 (Zfp472), mRNA [NM_153063]
A_55_P2019914	-0,62	-6,32	0,0060	Spopl	Mus musculus speckle-type POZ protein-like (Spopl), transcript variant 2, mRNA [NM_001165997]
A_55_P2022337	-0,62	-3,97	0,0368	Dhcr7	Mus musculus 7-dehydrocholesterol reductase (Dhcr7), mRNA [NM_007856]
A_51_P487228	-0,62	-5,33	0,0120	B9d2	Mus musculus B9 protein domain 2 (B9d2), mRNA [NM_172148]
A_55_P2137706	-0,62	-5,65	0,0095	Tmpo	Mus musculus thymopoietin (Tmpo), transcript variant 3, mRNA [NM_001080129]
A_66_P129508	-0,62	-3,79	0,0430	Hyls1	Mus musculus hydrolethalus syndrome 1 (Hyls1), mRNA [NM_029762]
A_51_P208769	-0,62	-6,23	0,0064	Metrn	Mus musculus meteorin, glial cell differentiation regulator (Metrn), mRNA [NM_133719]
A_51_P360963	-0,62	-5,03	0,0152	Mbtd1	Mus musculus mbt domain containing 1 (Mbtd1), mRNA [NM_134012]
A_55_P2028362	-0,62	-3,64	0,0493	LOC102640717	PREDICTED: Mus musculus transcription elongation factor 1 homolog (LOC102640717), mRNA [XM_006526529]
A_51_P330630	-0,62	-5,62	0,0097	Usp3	Mus musculus ubiquitin specific peptidase 3 (Usp3), mRNA [NM_144937]
A_52_P28775	-0,62	-4,11	0,0328	Engase	Mus musculus endo-beta-N-acetylglucosaminidase (Engase), mRNA [NM_172573]
A_55_P2071799	-0,62	-4,34	0,0270	Slbp	Mus musculus stem-loop binding protein (Slbp), transcript variant 1, mRNA [NM_009193]
A_51_P493285	-0,62	-4,79	0,0184	Dapk3	Mus musculus death-associated protein kinase 3 (Dapk3), transcript variant 2, mRNA [NM_007828]
A_51_P314019	-0,62	-6,94	0,0039	Banf1	Mus musculus barrier to autointegration factor 1 (Banf1), transcript variant 2, mRNA [NM_001038231]
A_51_P253697	-0,62	-4,02	0,0351	Rpain	Mus musculus RPA interacting protein (Rpain), transcript variant 1, mRNA [NM_027186]
A_51_P201137	-0,62	-5,44	0,0111	Lbr	Mus musculus lamin B receptor (Lbr), mRNA [NM_133815]
A_55_P1958215	-0,62	-3,87	0,0398	Ccr4	Mus musculus chemokine (C-C motif) receptor 4 (Ccr4), mRNA [NM_009916]
A_55_P1974681	-0,62	-4,42	0,0252	Nsun4	Mus musculus NOL1/NOP2/Sun domain family, member 4 (Nsun4), mRNA [NM_028142]
A_55_P2022181	-0,62	-3,63	0,0498	Arvcf	Mus musculus armadillo repeat gene deleted in velo-cardio-facial syndrome (Arvcf), transcript variant 1, mRNA [NM_033474]
A_52_P254149	-0,62	-5,44	0,0111	Irgq	Mus musculus immunity-related GTPase family, Q (Irgq), mRNA [NM_153134]
A_55_P2046897	-0,62	-3,69	0,0473	9430060I03Rik	Mus musculus RIKEN cDNA 9430060I03 gene (9430060I03Rik), long non-coding RNA [NR_015525]
A_55_P2083764	-0,63	-4,29	0,0281	Rbm12	RNA binding motif protein 12 [Source:MGI Symbol;Acc:MGI:1922960] [ENSMUST00000109604]
A_52_P413502	-0,63	-3,84	0,0409	Rtfdc1	Mus musculus replication termination factor 2 domain containing 1 (Rtfdc1), mRNA [NM_025542]
A_51_P405985	-0,63	-5,68	0,0093	Fig4	Mus musculus FIG4 homolog (S. cerevisiae) (Fig4), mRNA [NM_133999]
A_52_P339791	-0,63	-3,98	0,0363	Hdgf	Mus musculus hepatoma-derived growth factor (Hdgf), mRNA [NM_008231]
A_55_P2014427	-0,63	-3,74	0,0451	Il17re	Mus musculus interleukin 17 receptor E (Il17re), transcript variant 3, mRNA [NM_001034031]
A_55_P2177154	-0,63	-3,78	0,0434	Hist1h2bm	Mus musculus histone cluster 1, H2bm (Hist1h2bm), mRNA [NM_178200]
A_52_P87892	-0,63	-4,68	0,0200	Fam175b	Mus musculus family with sequence similarity 175, member B (Fam175b), mRNA [NM_198017]
A_55_P2038458	-0,63	-6,02	0,0074	Lancl2	Mus musculus LanC (bacterial lantibiotic synthetase component C)-like 2 (Lancl2), mRNA [NM_133737]
A_51_P424810	-0,63	-4,27	0,0285	Ncapg2	Mus musculus non-SMC condensin II complex, subunit G2 (Ncapg2), mRNA [NM_133762]
A_51_P334789	-0,63	-3,94	0,0374	Nudt16	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 16 (Nudt16), mRNA [NM_029385]
A_51_P262340	-0,63	-4,85	0,0176	Rbm3	Mus musculus RNA binding motif protein 3 (Rbm3), transcript variant 2, mRNA [NM_001166409]
A_51_P406365	-0,63	-6,91	0,0040	Maf1	Mus musculus MAF1 homolog (S. cerevisiae) (Maf1), transcript variant 2, mRNA [NM_026859]
A_52_P869802	-0,63	-3,84	0,0409	Thoc3	Mus musculus THO complex 3 (Thoc3), mRNA [NM_028597]
A_55_P2112120	-0,63	-3,97	0,0366	Tnk2	Mus musculus tyrosine kinase, non-receptor, 2 (Tnk2), transcript variant 1, mRNA [NM_016788]
A_55_P2029420	-0,63	-4,23	0,0295	2610318N02 Rik	Mus musculus RIKEN cDNA 2610318N02 gene (2610318N02Rik), mRNA [NM_183287]
A_51_P139069	-0,63	-5,59	0,0099	Wdr45	Mus musculus WD repeat domain 45 (Wdr45), transcript variant 2, mRNA [NM_172372]
A_51_P155073	-0,63	-4,23	0,0296	Nudt14	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 14 (Nudt14), mRNA [NM_025399]
A_51_P184796	-0,63	-5,15	0,0140	Zfp101	Mus musculus zinc finger protein 101 (Zfp101), mRNA [NM_009542]

A_52_P450835	-0,63	-6,03	0,0073	Cdpf1	Mus musculus cysteine rich, DPF motif domain containing 1 (Cdpf1), transcript variant 2, mRNA [NM_197998]
A_66_P140976	-0,63	-6,47	0,0054	Rpl15	Mus musculus ribosomal protein L15 (Rpl15), mRNA [NM_025586]
A_66_P125722	-0,63	-6,36	0,0058	Cyb5a	Mus musculus cytochrome b5 type A (microsomal) (Cyb5a), mRNA [NM_025797]
A_55_P2114201	-0,63	-4,06	0,0341	G2e3	Mus musculus G2/M-phase specific E3 ubiquitin ligase (G2e3), transcript variant 2, mRNA [NM_001167963]
A_55_P1957373	-0,63	-4,07	0,0339	Pdcl	Mus musculus phosducin-like (Pdcl), mRNA [NM_026176]
A_51_P101660	-0,63	-4,65	0,0206	1200014J11Rik	Mus musculus RIKEN cDNA 1200014J11 gene (1200014J11Rik), mRNA [NM_025818]
A_52_P205789	-0,63	-5,19	0,0136	Unc119b	Mus musculus unc-119 homolog B (C. elegans) (Unc119b), mRNA [NM_175352]
A_55_P2015860	-0,63	-3,91	0,0385	Plcg1	Mus musculus phospholipase C, gamma 1 (Plcg1), mRNA [NM_021280]
A_55_P2131483	-0,63	-5,63	0,0096	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_52_P531662	-0,63	-4,61	0,0214	Ttc9c	Mus musculus tetratricopeptide repeat domain 9C (Ttc9c), mRNA [NM_027412]
A_51_P344566	-0,63	-4,52	0,0232	Plk1	Mus musculus polo-like kinase 1 (Plk1), mRNA [NM_011121]
A_51_P344376	-0,64	-5,80	0,0086	Gpr162	Mus musculus G protein-coupled receptor 162 (Gpr162), mRNA [NM_013533]
A_51_P457331	-0,64	-4,33	0,0271	Hmgn5	Mus musculus high-mobility group nucleosome binding domain 5 (Hmgn5), mRNA [NM_016710]
A_66_P124011	-0,64	-7,22	0,0034	Spint2	Mus musculus serine protease inhibitor, Kunitz type 2 (Spint2), transcript variant 1, mRNA [NM_011464]
A_52_P663742	-0,64	-4,17	0,0309	Ganc	Mus musculus glucosidase, alpha; neutral C (Ganc), mRNA [NM_172672]
A_55_P2164534	-0,64	-4,79	0,0184	Dtl	Mus musculus denticleless homolog (Drosophila) (Dtl), mRNA [NM_029766]
A_55_P1963144	-0,64	-5,78	0,0087	Mtmr14	Mus musculus myotubularin related protein 14 (Mtmr14), mRNA [NM_026849]
A_52_P8043	-0,64	-5,86	0,0082	Srsf2	Mus musculus serine/arginine-rich splicing factor 2 (Srsf2), mRNA [NM_011358]
A_66_P139974	-0,64	-3,92	0,0381	Arl6	Mus musculus ADP-ribosylation factor-like 6 (Arl6), mRNA [NM_019665]
A_52_P590235	-0,64	-5,55	0,0102	Vars2	Mus musculus valyl-tRNA synthetase 2, mitochondrial (putative) (Vars2), mRNA [NM_175137]
A_52_P582261	-0,64	-4,96	0,0161	Ikzf5	Mus musculus IKAROS family zinc finger 5 (Ikzf5), mRNA [NM_175115]
A_51_P254986	-0,64	-5,42	0,0112	Serf1	Mus musculus small EDRK-rich factor 1 (Serf1), mRNA [NM_011353]
A_55_P2105152	-0,64	-4,55	0,0227	Trim59	Mus musculus tripartite motif-containing 59 (Trim59), mRNA [NM_025863]
A_55_P2223582	-0,64	-4,07	0,0339	D330023K18Rik	Mus musculus 13 days embryo heart cDNA, RIKEN full-length enriched library, clone:D330023K18 product:unclassifiable, full insert sequence. [AK084630]
A_51_P250807	-0,64	-3,99	0,0361	Spata2l	Mus musculus spermatogenesis associated 2-like (Spata2l), mRNA [NM_030176]
A_51_P324287	-0,64	-4,90	0,0171	Kif23	Mus musculus kinesin family member 23 (Kif23), mRNA [NM_024245]
A_55_P2042277	-0,64	-4,37	0,0263	Pbrm1	Mus musculus polybromo 1 (Pbrm1), mRNA [NM_001081251]
A_55_P1994773	-0,64	-7,05	0,0038	Gm16381	Mus musculus predicted gene 16381 (Gm16381), mRNA [NM_001166062]
A_55_P2148821	-0,64	-4,51	0,0235	Agtbp1	Mus musculus ATP/GTP binding protein 1 (Agtbp1), transcript variant 3, mRNA [NM_001284218]
A_55_P2032608	-0,64	-4,23	0,0294	1190002N15Rik	Mus musculus RIKEN cDNA 1190002N15 gene (1190002N15Rik), mRNA [NM_001033145]
A_55_P2176300	-0,64	-3,70	0,0470	Slc33a1	Mus musculus solute carrier family 33 (acetyl-CoA transporter), member 1 (Slc33a1), transcript variant 2, mRNA [NM_001272035]
A_55_P1978972	-0,64	-5,72	0,0091	Rp2h	Mus musculus retinitis pigmentosa 2 homolog (human) (Rp2h), transcript variant 2, mRNA [NM_001290643]
A_55_P2019690	-0,64	-4,08	0,0336	Slc43a1	Mus musculus solute carrier family 43, member 1 (Slc43a1), transcript variant 1, mRNA [NM_001081349]
A_55_P2025902	-0,64	-6,67	0,0048	Gm11783	PREDICTED: Mus musculus uncharacterized LOC621549 (LOC621549), ncRNA [XR_390351]
A_55_P1970002	-0,64	-4,46	0,0243	Sh3kbp1	Mus musculus SH3-domain kinase binding protein 1 (Sh3kbp1), transcript variant 1, mRNA [NM_001135727]
A_55_P2122718	-0,65	-4,56	0,0224	Gpr19	Mus musculus G protein-coupled receptor 19 (Gpr19), transcript variant 2, mRNA [NM_001167700]
A_55_P1982171	-0,65	-5,51	0,0105	H2afz	Mus musculus H2A histone family, member Z (H2afz), mRNA [NM_016750]
A_55_P2078246	-0,65	-4,39	0,0258	Ppp1r10	Mus musculus protein phosphatase 1, regulatory subunit 10 (Ppp1r10), mRNA [NM_001163818]
A_52_P219913	-0,65	-4,06	0,0341	Cdan1	Mus musculus congenital dyserythropoietic anemia, type I (human) (Cdan1), mRNA [NM_026891]
A_52_P432780	-0,65	-4,07	0,0339	Mrpl50	Mus musculus mitochondrial ribosomal protein L50 (Mrpl50), mRNA [NM_178603]
A_55_P1953157	-0,65	-5,42	0,0112	Mettl18	Mus musculus methyltransferase like 18 (Mettl18), mRNA [NM_027279]
A_55_P2145496	-0,65	-6,73	0,0045	Wdr45	Mus musculus WD repeat domain 45 (Wdr45), transcript variant 1, mRNA [NM_001290792]
A_52_P609024	-0,65	-4,08	0,0335	Cenpw	Mus musculus centromere protein W (Cenpw), mRNA [NM_001109747]
A_66_P134534	-0,65	-4,96	0,0161	Atl2	Mus musculus atlastin GTPase 2 (Atl2), transcript variant 1, mRNA [NM_019717]
A_55_P2056342	-0,65	-5,15	0,0139	Mgst3	Mus musculus microsomal glutathione S-transferase 3 (Mgst3), mRNA [NM_025569]
A_55_P2041397	-0,65	-5,48	0,0107	Ezh2	Mus musculus enhancer of zeste homolog 2 (Drosophila) (Ezh2), transcript variant 1, mRNA [NM_007971]

A_52_P550218	-0,65	-3,72	0,0461	Trmt12	Mus musculus tRNA methyltransferase 12 (Trmt12), mRNA [NM_026642]
A_55_P2112085	-0,65	-4,88	0,0174	Vwa8	Mus musculus von Willebrand factor A domain containing 8 (Vwa8), transcript variant 1, mRNA [NM_027906]
A_51_P381873	-0,65	-6,24	0,0064	Bub3	Mus musculus budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae) (Bub3), mRNA [NM_009774]
A_55_P2087876	-0,65	-6,02	0,0074	Patz1	POZ (BTB) and AT hook containing zinc finger 1 [Source:MGI Symbol;Acc:MGI:1891832] [ENSIMUST00000153603]
A_55_P2005813	-0,65	-5,55	0,0102	3110057012 Rik	Mus musculus RIKEN cDNA 3110057012 gene (3110057012Rik), mRNA [NM_026622]
A_55_P2138816	-0,65	-5,99	0,0076	Mplkip	Mus musculus M-phase specific PLK1 interacting protein (Mplkip), mRNA [NM_025479]
A_52_P283802	-0,65	-6,38	0,0058	Tapt1	Mus musculus transmembrane anterior posterior transformation 1 (Tapt1), mRNA [NM_173764]
A_51_P494863	-0,65	-6,10	0,0069	Vmac	Mus musculus vimentin-type intermediate filament associated coiled-coil protein (Vmac), transcript variant 1, mRNA [NM_178926]
A_51_P317317	-0,65	-5,43	0,0111	Pddc1	Mus musculus Parkinson disease 7 domain containing 1 (Pddc1), mRNA [NM_172116]
A_55_P2099526	-0,65	-6,81	0,0043	H2afv	Mus musculus H2A histone family, member V (H2afv), mRNA [NM_029938]
A_55_P2121744	-0,65	-4,60	0,0217	Vars2	Mus musculus valyl-tRNA synthetase 2, mitochondrial (putative) (Vars2), mRNA [NM_175137]
A_51_P270666	-0,65	-5,97	0,0076	Usp11	Mus musculus ubiquitin specific peptidase like 1 (Usp11), transcript variant 4, mRNA [NM_001013378]
A_51_P341177	-0,65	-6,14	0,0068	Ddah2	Mus musculus dimethylarginine dimethylaminohydrolase 2 (Ddah2), transcript variant 2, mRNA [NM_016765]
A_55_P1974134	-0,66	-6,51	0,0053	Ict1	Mus musculus immature colon carcinoma transcript 1 (Ict1), mRNA [NM_026729]
A_51_P158210	-0,66	-5,17	0,0138	Mcm2	Mus musculus minichromosome maintenance deficient 2 mitotin (S. cerevisiae) (Mcm2), mRNA [NM_008564]
A_55_P2055369	-0,66	-5,10	0,0146	Etfb	Mus musculus electron transferring flavoprotein, beta polypeptide (Etfb), transcript variant 1, mRNA [NM_026695]
A_51_P103865	-0,66	-3,65	0,0491	Ppp1r35	Mus musculus protein phosphatase 1, regulatory subunit 35 (Ppp1r35), mRNA [NM_027242]
A_51_P372895	-0,66	-5,03	0,0151	Zfp433	Mus musculus RIKEN cDNA 1700123A16 gene (Zfp433), mRNA [NM_001243067]
A_66_P100105	-0,66	-5,34	0,0120	Inadl	Mus musculus InaD-like (Drosophila) (Inadl), transcript variant 1, mRNA [NM_172696]
A_55_P2186558	-0,66	-5,40	0,0114	Tmem242	Mus musculus transmembrane protein 242 (Tmem242), mRNA [NM_027457]
A_66_P108263	-0,66	-4,08	0,0336	Pwvp2a	Mus musculus PWWP domain containing 2A (Pwvp2a), transcript variant 1, mRNA [NM_001164231]
A_52_P582858	-0,66	-5,92	0,0079	Dgkd	Mus musculus diacylglycerol kinase, delta (Dgkd), mRNA [NM_177646]
A_55_P1984366	-0,66	-4,56	0,0224	Cdadcl	Mus musculus cytidine and dCMP deaminase domain containing 1 (Cdadcl), transcript variant 3, mRNA [NM_001168536]
A_51_P133422	-0,66	-5,44	0,0110	Nck2	non-catalytic region of tyrosine kinase adaptor protein 2 [Source:MGI Symbol;Acc:MGI:1306821] [ENSIMUST00000136648]
A_51_P123604	-0,66	-4,34	0,0269	Ppwd1	Mus musculus peptidylprolyl isomerase domain and WD repeat containing 1 (Ppwd1), mRNA [NM_172807]
A_55_P2117710	-0,66	-4,81	0,0181	Snhg1	Mus musculus small nucleolar RNA host gene 1 (Snhg1), long non-coding RNA [NR_002896]
A_51_P223498	-0,66	-4,05	0,0345	Slc39a10	Mus musculus solute carrier family 39 (zinc transporter), member 10 (Slc39a10), mRNA [NM_172653]
A_55_P1988228	-0,66	-4,18	0,0307	Aspm	Mus musculus asp (abnormal spindle)-like, microcephaly associated (Drosophila) (Aspm), mRNA [NM_009791]
A_55_P2179726	-0,66	-5,46	0,0109	Mettl18	Mus musculus methyltransferase like 18 (Mettl18), mRNA [NM_027279]
A_52_P589119	-0,66	-3,88	0,0394	Rhno1	Mus musculus RAD9-HUS1-RAD1 interacting nuclear orphan 1 (Rhno1), transcript variant 1, long non-coding RNA [NR_027360]
A_51_P435968	-0,66	-6,17	0,0066	Tnfai8	Mus musculus tumor necrosis factor, alpha-induced protein 8 (Tnfai8), transcript variant 1, mRNA [NM_134131]
A_52_P5901	-0,67	-4,76	0,0189	Saal1	Mus musculus serum amyloid A-like 1 (Saal1), mRNA [NM_030233]
A_52_P644972	-0,67	-6,23	0,0064	Mzt1	Mus musculus mitotic spindle organizing protein 1 (Mzt1), mRNA [NM_175245]
A_51_P393958	-0,67	-4,82	0,0180	Fbxo5	Mus musculus F-box protein 5 (Fbxo5), mRNA [NM_025995]
A_55_P2037478	-0,67	-5,81	0,0085	Kifap3	Mus musculus kinesin-associated protein 3 (Kifap3), mRNA [NM_010629]
A_55_P2012729	-0,67	-4,02	0,0354	Kcnh2	Mus musculus potassium voltage-gated channel, subfamily H (eag-related), member 2 (Kcnh2), mRNA [NM_013569]
A_51_P411264	-0,67	-6,14	0,0068	Txndc16	Mus musculus thioredoxin domain containing 16 (Txndc16), mRNA [NM_172597]
A_55_P2183652	-0,67	-5,52	0,0104	Foxd2os	Mus musculus forkhead box D2, opposite strand (Foxd2os), long non-coding RNA [NR_030721]
A_55_P2085994	-0,67	-4,56	0,0224	Zfat	Mus musculus zinc finger and AT hook domain containing (Zfat), transcript variant 1, mRNA [NM_001145888]
A_51_P502082	-0,67	-5,39	0,0114	Rrm1	Mus musculus ribonucleotide reductase M1 (Rrm1), mRNA [NM_009103]
A_52_P470401	-0,67	-3,92	0,0383	Tmem186	Mus musculus transmembrane protein 186 (Tmem186), mRNA [NM_025708]
A_51_P126302	-0,67	-4,53	0,0232	Rbm2	Mus musculus RNA binding motif protein, X-linked 2 (Rbm2), mRNA [NM_173376]
A_66_P117659	-0,67	-5,95	0,0078	Nfatc3	Mus musculus nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3 (Nfatc3), mRNA [NM_010901]
A_55_P2140002	-0,67	-7,33	0,0032	Tnfai8	Mus musculus tumor necrosis factor, alpha-induced protein 8 (Tnfai8), transcript variant 1, mRNA [NM_134131]
A_55_P2168417	-0,67	-5,69	0,0093	Cul2	Mus musculus cullin 2 (Cul2), mRNA [NM_029402]
A_55_P2118799	-0,67	-4,27	0,0285	Rmi1	Mus musculus RMI1, RecQ mediated genome instability 1, homolog (S. cerevisiae) (Rmi1), transcript variant 1, mRNA [NM_001168248]

A_55_P2067727	-0,67	-4,03	0,0347	Mxra7	Mus musculus matrix-remodelling associated 7 (Mxra7), mRNA [NM_026280]
A_55_P1973208	-0,67	-4,94	0,0164	Tax1bp3	Mus musculus Tax1 (human T cell leukemia virus type I) binding protein 3 (Tax1bp3), mRNA [NM_029564]
A_51_P314907	-0,67	-4,96	0,0161	Dbf4	Mus musculus DBF4 homolog (S. cerevisiae) (Dbf4), transcript variant 1, mRNA [NM_013726]
A_55_P2098354	-0,67	-6,64	0,0048	Shf	Mus musculus Src homology 2 domain containing F (Shf), mRNA [NM_001013829]
A_51_P338998	-0,67	-4,36	0,0267	Prim2	Mus musculus DNA primase, p58 subunit (Prim2), mRNA [NM_008922]
A_51_P154753	-0,67	-6,40	0,0057	Klc3	Mus musculus kinesin light chain 3 (Klc3), transcript variant 2, mRNA [NM_146182]
A_51_P210928	-0,67	-6,19	0,0065	Tsta3	Mus musculus tissue specific transplantation antigen P35B (Tsta3), mRNA [NM_031201]
A_51_P275123	-0,68	-3,74	0,0450	Psd3	Mus musculus pleckstrin and Sec7 domain containing 3 (Psd3), transcript variant 2, mRNA [NM_177698]
A_52_P381418	-0,68	-4,55	0,0227	Slc35b4	Mus musculus solute carrier family 35, member B4 (Slc35b4), mRNA [NM_021435]
A_55_P2005838	-0,68	-4,94	0,0164	Ticrr	Mus musculus TOPBP1-interacting checkpoint and replication regulator (Ticrr), mRNA [NM_029835]
A_55_P2127538	-0,68	-4,55	0,0227	Ppp1r21	Mus musculus protein phosphatase 1, regulatory subunit 21 (Ppp1r21), mRNA [NM_028658]
A_51_P328014	-0,68	-8,68	0,0016	Cops3	Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 3 (Arabidopsis thaliana) (Cops3), mRNA [NM_011991]
A_55_P2269497	-0,68	-3,93	0,0379	Pdp1	Mus musculus pyruvate dehydrogenase phosphatase catalytic subunit 1 (Pdp1), transcript variant 2, mRNA [NM_001098230]
A_55_P2073935	-0,68	-4,55	0,0227	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 1, mRNA [NM_013790]
A_55_P2022297	-0,68	-6,20	0,0065	Pthr2	Mus musculus peptidyl-tRNA hydrolase 2 (Pthr2), transcript variant 1, mRNA [NM_175004]
A_55_P2001861	-0,68	-5,58	0,0100	LOC102640717	PREDICTED: Mus musculus transcription elongation factor 1 homolog (LOC102640717), mRNA [XM_006526529]
A_51_P165165	-0,68	-7,06	0,0038	Hibadh	Mus musculus 3-hydroxyisobutyrate dehydrogenase (Hibadh), mRNA [NM_145567]
A_55_P2364738	-0,68	-5,68	0,0093	Plxdc1	Mus musculus plexin domain containing 1 (Plxdc1), transcript variant 1, mRNA [NM_001163608]
A_55_P2003473	-0,68	-3,82	0,0419	Zc4h2	Mus musculus zinc finger, C4H2 domain containing (Zc4h2), transcript variant 2, mRNA [NM_001289696]
A_66_P112546	-0,68	-4,88	0,0173	Yeats4	Mus musculus YEATS domain containing 4 (Yeats4), mRNA [NM_026570]
A_55_P1968193	-0,68	-5,06	0,0148	Fhit	Mus musculus fragile histidine triad gene (Fhit), mRNA [NM_010210]
A_55_P2099479	-0,68	-5,61	0,0097	H2afz	Mus musculus H2A histone family, member Z (H2afz), mRNA [NM_016750]
A_51_P511482	-0,68	-6,82	0,0043	Ift57	Mus musculus intraflagellar transport 57 (Ift57), mRNA [NM_028680]
A_55_P1998411	-0,68	-5,55	0,0102	Chchd3	Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 3 (Chchd3), mRNA [NM_025336]
A_66_P136186	-0,68	-3,90	0,0386	Wee1	Mus musculus WEE 1 homolog 1 (S. pombe) (Wee1), mRNA [NM_009516]
A_66_P137654	-0,68	-5,54	0,0102	Smpd2	Mus musculus sphingomyelin phosphodiesterase 2, neutral (Smpd2), mRNA [NM_009213]
A_65_P18433	-0,68	-6,94	0,0039	Ankrd28	Mus musculus ankyrin repeat domain 28 (Ankrd28), mRNA [NM_001024604]
A_52_P62530	-0,68	-3,96	0,0368	Sc1t1	Mus musculus sodium channel and clathrin linker 1 (Sc1t1), mRNA [NM_001081411]
A_52_P674165	-0,68	-4,30	0,0279	Rsb11	Mus musculus round spermatid basic protein 1-like (Rsb11), mRNA [NM_001080977]
A_51_P315634	-0,69	-4,38	0,0262	Nedd1	Mus musculus neural precursor cell expressed, developmentally down-regulated gene 1 (Nedd1), mRNA [NM_008682]
A_55_P1976789	-0,69	-6,05	0,0073	Dgcr6	Mus musculus DiGeorge syndrome critical region gene 6 (Dgcr6), transcript variant 3, mRNA [NM_010047]
A_55_P2010906	-0,69	-4,74	0,0192	Rbm45	Mus musculus RNA binding motif protein 45 (Rbm45), mRNA [NM_153405]
A_52_P616591	-0,69	-5,27	0,0126	Eri3	Mus musculus exoribonuclease 3 (Eri3), transcript variant 1, mRNA [NM_080469]
A_52_P200207	-0,69	-7,68	0,0026	Rmnd5a	Mus musculus required for meiotic nuclear division 5 homolog A (S. cerevisiae) (Rmnd5a), mRNA [NM_024288]
A_55_P1992074	-0,69	-7,42	0,0030	Ptptra	Mus musculus protein tyrosine phosphatase, receptor type, A (Ptptra), transcript variant 1, mRNA [NM_008980]
A_52_P620748	-0,69	-4,16	0,0313	Ncl	Mus musculus nucleolin (Ncl), mRNA [NM_010880]
A_52_P237048	-0,69	-4,94	0,0164	Prmt6	Mus musculus protein arginine N-methyltransferase 6 (Prmt6), transcript variant 2, long non-coding RNA [NR_024139]
A_51_P415905	-0,69	-5,00	0,0156	Pola1	Mus musculus polymerase (DNA directed), alpha 1 (Pola1), mRNA [NM_008892]
A_52_P389230	-0,69	-5,03	0,0152	Smarcc2	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2 (Smarcc2), transcript variant 3, mRNA [NM_198160]
A_51_P332580	-0,69	-3,64	0,0494	Polr3f	Mus musculus polymerase (RNA) III (DNA directed) polypeptide F (Polr3f), mRNA [NM_029763]
A_55_P2066827	-0,69	-4,36	0,0265	Hexim2	Mus musculus hexamethylene bis-acetamide inducible 2 (Hexim2), transcript variant 1, mRNA [NM_027658]
A_55_P1955472	-0,69	-4,01	0,0356	Bbs1	Mus musculus Bardet-Biedl syndrome 1 (human) (Bbs1), mRNA [NM_001033128]
A_66_P127118	-0,69	-4,83	0,0179	Trmt112	Mus musculus tRNA methyltransferase 11-2 (Trmt112), transcript variant 1, mRNA [NM_001166370]
A_52_P638513	-0,69	-5,04	0,0150	2310061J03R1k	Mus musculus RIKEN cDNA 2310061J03 gene (2310061J03Rik), long non-coding RNA [NR_027965]
A_52_P593015	-0,69	-3,69	0,0471	Pibf1	Mus musculus progesterone immunomodulatory binding factor 1 (Pibf1), mRNA [NM_029320]
A_52_P674357	-0,69	-4,84	0,0178	Thtpa	Mus musculus thiamine triphosphatase (Thtpa), mRNA [NM_153083]
A_52_P239707	-0,69	-5,47	0,0108	Nfyb	Mus musculus nuclear transcription factor-Y beta (Nfyb), mRNA [NM_010914]



A_55_P2103831	-0,69	-4,57	0,0222	Gm6653	PREDICTED: Mus musculus predicted gene 6653 (Gm6653), misc_RNA [XR_393118]
A_52_P285992	-0,69	-4,87	0,0174	Arfgap2	Mus musculus ADP-ribosylation factor GTPase activating protein 2 (Arfgap2), transcript variant 2, mRNA [NM_023854]
A_55_P2273705	-0,69	-4,37	0,0262	A330044H09	Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A330044H09 product:unclassifiable, full insert sequence. [AK039451]
A_51_P198775	-0,69	-5,61	0,0097	BC055324	Mus musculus cDNA sequence BC055324 (BC055324), mRNA [NM_201364]
A_65_P20433	-0,69	-4,44	0,0249	Parpbp	Mus musculus PARP1 binding protein (Parpbp), mRNA [NM_029249]
A_55_P2162136	-0,69	-6,69	0,0047	Hmgn2	Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]
A_52_P229959	-0,69	-6,96	0,0039	38961	Mus musculus septin 6 (Sept6), transcript variant 2, mRNA [NM_019942]
A_52_P365896	-0,69	-4,09	0,0335	Pa2g4	Mus musculus proliferation-associated 2G4 (Pa2g4), mRNA [NM_011119]
A_55_P2036459	-0,69	-5,46	0,0109	Med24	Mus musculus mediator complex subunit 24 (Med24), mRNA [NM_011869]
A_51_P493270	-0,69	-4,66	0,0205	Mrps5	Mus musculus mitochondrial ribosomal protein S5 (Mrps5), mRNA [NM_029963]
A_55_P2180769	-0,70	-4,45	0,0246	Gls	Mus musculus glutaminase (Gls), transcript variant 1, mRNA [NM_001081081]
A_52_P243412	-0,70	-3,89	0,0391	Ulk2	Mus musculus unc-51 like kinase 2 (Ulk2), mRNA [NM_013881]
A_52_P287683	-0,70	-4,80	0,0183	Pik3c3	Mus musculus phosphoinositide-3-kinase, class 3 (Pik3c3), mRNA [NM_181414]
A_55_P2062797	-0,70	-4,24	0,0292	4921524J17Rik	Mus musculus RIKEN cDNA 4921524J17 gene (4921524J17Rik), transcript variant 1, mRNA [NM_025722]
A_55_P2107830	-0,70	-5,78	0,0087	Gemin2	Mus musculus gem (nuclear organelle) associated protein 2 (Gemin2), mRNA [NM_025656]
A_66_P119350	-0,70	-4,88	0,0173	2310040G24Rik	Mus musculus RIKEN cDNA 2310040G24 gene (2310040G24Rik), transcript variant 2, long non-coding RNA [NR_040293]
A_55_P2053258	-0,70	-5,40	0,0114	Poc1a	Mus musculus POC1 centriolar protein homolog A (Chlamydomonas) (Poc1a), mRNA [NM_027354]
A_55_P2022354	-0,70	-4,23	0,0296	Tmem209	Mus musculus transmembrane protein 209 (Tmem209), mRNA [NM_178625]
A_55_P2064595	-0,70	-4,19	0,0306	Cnot6	Mus musculus CCR4-NOT transcription complex, subunit 6 (Cnot6), transcript variant 2, mRNA [NM_212484]
A_52_P830312	-0,70	-4,55	0,0227	Iba57	Mus musculus IBA57, iron-sulfur cluster assembly homolog (S. cerevisiae) (Iba57), transcript variant 1, mRNA [NM_173785]
A_51_P292368	-0,70	-4,14	0,0319	Tmco6	Mus musculus transmembrane and coiled-coil domains 6 (Tmco6), mRNA [NM_028036]
A_51_P153973	-0,70	-4,05	0,0343	Zfp273	Mus musculus zinc finger protein 273 (Zfp273), mRNA [NM_198322]
A_55_P1971179	-0,70	-3,97	0,0367	Cd1d1	Mus musculus CD1d1 antigen (Cd1d1), mRNA [NM_007639]
A_51_P466773	-0,70	-4,04	0,0345	Zfp646	Mus musculus zinc finger protein 646 (Zfp646), mRNA [NM_172749]
A_55_P1952379	-0,70	-4,64	0,0208	Fkbp5	Mus musculus FK506 binding protein 5 (Fkbp5), mRNA [NM_010220]
A_55_P2101757	-0,70	-4,09	0,0333	Dscc1	Mus musculus defective in sister chromatid cohesion 1 homolog (S. cerevisiae) (Dscc1), mRNA [NM_183089]
A_51_P399853	-0,70	-3,86	0,0403	Zfp704	Mus musculus zinc finger protein 704 (Zfp704), mRNA [NM_133218]
A_52_P620793	-0,71	-5,56	0,0101	Eif2a	Mus musculus eukaryotic translation initiation factor 2A (Eif2a), mRNA [NM_001005509]
A_55_P2110355	-0,71	-4,01	0,0357	Zfp637	Mus musculus zinc finger protein 637 (Zfp637), mRNA [NM_177684]
A_51_P133137	-0,71	-4,06	0,0341	Kif20a	Mus musculus kinesin family member 20A (Kif20a), transcript variant 3, mRNA [NM_009004]
A_55_P2073377	-0,71	-3,84	0,0409	Mki67	Mus musculus antigen identified by monoclonal antibody Ki 67 (Mki67), mRNA [NM_001081117]
A_55_P2415197	-0,71	-4,19	0,0305	2810013P06Rik	Mus musculus RIKEN cDNA 2810013P06 gene (2810013P06Rik), long non-coding RNA [NR_045268]
A_55_P2000728	-0,71	-7,25	0,0034	Myef2	Mus musculus myelin basic protein expression factor 2, repressor (Myef2), transcript variant 1, mRNA [NM_001162417]
A_55_P2120433	-0,71	-4,93	0,0165	Wdr12	Mus musculus WD repeat domain 12 (Wdr12), transcript variant 1, mRNA [NM_001199060]
A_66_P104442	-0,71	-5,34	0,0120	Cog6	Mus musculus component of oligomeric golgi complex 6 (Cog6), mRNA [NM_026225]
A_55_P2077263	-0,71	-3,77	0,0437	Cenpk	Mus musculus centromere protein K (Cenpk), transcript variant 1, mRNA [NM_021790]
A_52_P54856	-0,71	-6,77	0,0044	Ubal1	Mus musculus UBA-like domain containing 1 (Ubal1), mRNA [NM_145359]
A_66_P115443	-0,71	-4,92	0,0166	Snx4	Mus musculus sorting nexin 4 (Snx4), mRNA [NM_080557]
A_55_P2170109	-0,71	-6,72	0,0046	Bivm	Mus musculus basic, immunoglobulin-like variable motif containing (Bivm), mRNA [NM_144558]
A_51_P202074	-0,71	-4,92	0,0167	Ncapd2	Mus musculus non-SMC condensin I complex, subunit D2 (Ncapd2), mRNA [NM_146171]
A_51_P335094	-0,71	-3,94	0,0375	Zcchc4	zinc finger, CCHC domain containing 4 [Source:MGI Symbol;Acc:MGI:1926046] [ENSMUST00000113904]
A_52_P175304	-0,71	-3,96	0,0369	Yme1l1	Mus musculus YME1-like 1 (S. cerevisiae) (Yme1l1), mRNA [NM_013771]
A_55_P2054350	-0,71	-4,72	0,0195	Fbxo44	Mus musculus F-box protein 44 (Fbxo44), transcript variant 1, mRNA [NM_173401]
A_51_P256945	-0,72	-4,40	0,0256	Opa3	Mus musculus optic atrophy 3 (Opa3), mRNA [NM_207525]
A_55_P1996941	-0,72	-6,48	0,0054	Ube2c	Mus musculus ubiquitin-conjugating enzyme E2C (Ube2c), mRNA [NM_026785]
A_55_P2103706	-0,72	-4,77	0,0187	Gm5593	PREDICTED: Mus musculus predicted gene 5593 (Gm5593), mRNA [XM_006544821]
A_55_P2109712	-0,72	-4,40	0,0256	Csnk1g2	Mus musculus casein kinase 1, gamma 2 (Csnk1g2), transcript variant 1, mRNA [NM_134002]

A_55_P2037702	-0,72	-4,20	0,0303	Gm10638	Mus musculus predicted gene 10638 (Gm10638), long non-coding RNA [NR_027829]
A_51_P214343	-0,72	-3,71	0,0465	Sephs1	Mus musculus selenophosphate synthetase 1 (Seps1), mRNA [NM_175400]
A_51_P128775	-0,72	-5,79	0,0086	Zfp84	Mus musculus zinc finger protein 84 (Zfp84), mRNA [NM_023750]
A_55_P2088028	-0,72	-4,61	0,0214	Mtss1	Mus musculus metastasis suppressor 1 (Mtss1), transcript variant 1, mRNA [NM_144800]
A_51_P286373	-0,72	-5,95	0,0078	Ttl12	Mus musculus tubulin tyrosine ligase-like family, member 12 (Ttl12), mRNA [NM_183017]
A_51_P117109	-0,72	-5,63	0,0096	Ilvbl	Mus musculus ilvB (bacterial acetolactate synthase)-like (Ilvbl), mRNA [NM_173751]
A_51_P288026	-0,72	-3,96	0,0368	Haus6	Mus musculus HAUS augmin-like complex, subunit 6 (Haus6), mRNA [NM_173400]
A_55_P2000853	-0,72	-5,48	0,0107	Mvb12b	Mus musculus multivesicular body subunit 12B (Mvb12b), mRNA [NM_175184]
A_51_P474454	-0,72	-5,25	0,0129	Rnaseh2b	Mus musculus ribonuclease H2, subunit B (Rnaseh2b), mRNA [NM_026001]
A_55_P1984003	-0,72	-5,79	0,0086	Desi1	Mus musculus desumoylating isopeptidase 1 (Desi1), mRNA [NM_134095]
A_55_P1954277	-0,72	-6,62	0,0049	Emid1	Mus musculus EMI domain containing 1 (Emid1), mRNA [NM_080595]
A_51_P288549	-0,72	-6,27	0,0062	Jmjd7	Mus musculus jumonji domain containing 7 (Jmjd7), mRNA [NM_001114637]
A_52_P238044	-0,72	-4,41	0,0253	Psmc3ip	Mus musculus proteasome (prosome, macropain) 26S subunit, ATPase 3, interacting protein (Psmc3ip), mRNA [NM_008949]
A_66_P132218	-0,72	-4,04	0,0346	Gm4430	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730008M19 product:unclassifiable, full insert sequence. [AK042594]
A_51_P421223	-0,72	-3,66	0,0484	Fv1	Mus musculus Friend virus susceptibility 1 (Fv1), mRNA [NM_010244]
A_51_P396297	-0,72	-4,28	0,0284	Hsd11	Mus musculus hydroxysteroid dehydrogenase like 1 (Hsd11), mRNA [NM_175185]
A_52_P630632	-0,72	-6,94	0,0039	Rcbtb2	Mus musculus regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2 (Rcbtb2), transcript variant 2, mRNA [NM_134083]
A_55_P2022444	-0,72	-4,75	0,0191	Pdss2	Mus musculus prenyl (solanesyl) diphosphate synthase, subunit 2 (Pdss2), transcript variant 1, mRNA [NM_027772]
A_55_P2126368	-0,73	-5,71	0,0091	Atad5	Mus musculus ATPase family, AAA domain containing 5 (Atad5), mRNA [NM_001029856]
A_51_P269173	-0,73	-4,69	0,0198	Alg9	Mus musculus asparagine-linked glycosylation 9 (alpha 1,2 mannosyltransferase) (Alg9), transcript variant 1, mRNA [NM_133981]
A_51_P383991	-0,73	-5,56	0,0101	38231	Mus musculus septin 4 (Sept4), transcript variant 1, mRNA [NM_011129]
A_51_P165082	-0,73	-4,93	0,0165	Tmem191c	Mus musculus transmembrane protein 191C (Tmem191c), mRNA [NM_177473]
A_51_P224099	-0,73	-4,73	0,0194	Cntrob	Mus musculus centrobins, centrosomal BRCA2 interacting protein (Cntrob), mRNA [NM_172560]
A_55_P2420928	-0,73	-3,84	0,0408	2900016J10Rik	BB376197 RIKEN full-length enriched, 16 days embryo head Mus musculus cDNA clone C130084A18 3'. [BB376197]
A_51_P185846	-0,73	-7,58	0,0027	Dnal4	Mus musculus dynein, axonemal, light chain 4 (Dnal4), mRNA [NM_017470]
A_55_P2066559	-0,73	-8,25	0,0019	Endou	Mus musculus endonuclease, polyU-specific (Endou), transcript variant 2, mRNA [NM_001168693]
A_66_P121459	-0,73	-5,28	0,0125	Cenpa	Mus musculus centromere protein A (Cenpa), mRNA [NM_007681]
A_55_P2101231	-0,73	-7,05	0,0038	Aldh7a1	Mus musculus aldehyde dehydrogenase family 7, member A1 (Aldh7a1), transcript variant 2, mRNA [NM_001127338]
A_66_P102510	-0,73	-5,96	0,0077	Fam114a2	Mus musculus family with sequence similarity 114, member A2 (Fam114a2), transcript variant 1, mRNA [NM_001168668]
A_51_P521171	-0,73	-4,49	0,0237	Hif1an	Mus musculus hypoxia-inducible factor 1, alpha subunit inhibitor (Hif1an), mRNA [NM_176958]
A_55_P2216997	-0,73	-3,76	0,0442	Tmem87a	Mus musculus transmembrane protein 87A (Tmem87a), transcript variant 3, mRNA [NM_001110497]
A_51_P122649	-0,73	-4,65	0,0205	Degs2	Mus musculus degenerative spermatocyte homolog 2 (Drosophila), lipid desaturase (Degs2), transcript variant 1, mRNA [NM_027299]
A_55_P2081055	-0,73	-6,11	0,0069	1700056E22Rik	Mus musculus RIKEN cDNA 1700056E22 gene (1700056E22Rik), mRNA [NM_028516]
A_55_P1983768	-0,73	-5,65	0,0095	Birc5	Mus musculus baculoviral IAP repeat-containing 5 (Birc5), transcript variant 1, mRNA [NM_009689]
A_51_P343851	-0,73	-4,30	0,0280	Tgfbrap1	Mus musculus transforming growth factor, beta receptor associated protein 1 (Tgfbrap1), mRNA [NM_001013025]
A_55_P2114342	-0,73	-3,90	0,0386	Gm10872	Mus musculus predicted gene 10872 (Gm10872), long non-coding RNA [NR_045747]
A_52_P1068723	-0,74	-3,67	0,0479	Dmxl1	Mus musculus Dmx-like 1 (Dmxl1), mRNA [NM_001081371]
A_55_P2117830	-0,74	-3,82	0,0419	5830415F09Rik	RIKEN cDNA 5830415F09 gene [Source:MGI Symbol;Acc:MGI:1922003] [ENSMUST0000030015]
A_55_P2097736	-0,74	-6,24	0,0064	Patz1	Mus musculus POZ (BTB) and AT hook containing zinc finger 1 (Patz1), transcript variant 1, mRNA [NM_019574]
A_55_P2128969	-0,74	-5,40	0,0114	Wbscr27	Mus musculus Williams Beuren syndrome chromosome region 27 (human) (Wbscr27), mRNA [NM_024479]
A_51_P251587	-0,74	-6,70	0,0047	Psmc9	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 9 (Psmc9), mRNA [NM_026000]
A_55_P2073709	-0,74	-3,70	0,0469	Tfdp2	Mus musculus transcription factor Dp 2 (Tfdp2), transcript variant 1, mRNA [NM_178667]
A_55_P1995205	-0,74	-5,85	0,0083	Top2a	Mus musculus topoisomerase (DNA) II alpha (Top2a), mRNA [NM_011623]
A_55_P2073940	-0,74	-5,58	0,0100	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 2, mRNA [NM_176839]
A_52_P375323	-0,74	-7,37	0,0031	Slc9a9	Mus musculus solute carrier family 9 (sodium/hydrogen exchanger), member 9 (Slc9a9), mRNA [NM_177909]

A_55_P2046693	-0,74	-4,55	0,0227	Slc25a5	Mus musculus solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 5, mRNA (cDNA clone MGC:8022 IMAGE:3586336), complete cds. [BC004570]
A_55_P2004801	-0,74	-5,43	0,0111	Tacc3	Mus musculus transforming, acidic coiled-coil containing protein 3 (Tacc3), mRNA [NM_001040435]
A_55_P2008891	-0,74	-4,02	0,0351	Tmsb15b1	Mus musculus thymosin beta 15b1 (Tmsb15b1), mRNA [NM_001081983]
A_51_P208931	-0,74	-4,63	0,0210	N4bp3	Mus musculus NEDD4 binding protein 3 (N4bp3), mRNA [NM_145974]
A_55_P2112185	-0,74	-5,89	0,0081	Nhs1	Mus musculus NHS-like 1 (Nhs1), transcript variant 1, mRNA [NM_173390]
A_51_P442284	-0,74	-4,69	0,0199	Dnajc12	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 12 (Dnajc12), transcript variant 1, mRNA [NM_013888]
A_55_P2018800	-0,74	-3,78	0,0436	Ints5	Mus musculus integrator complex subunit 5 (Ints5), mRNA [NM_176843]
A_65_P10450	-0,74	-3,64	0,0496	Tmpo	Mus musculus thymopoietin (Tmpo), transcript variant 1, mRNA [NM_011605]
A_55_P2167035	-0,74	-5,50	0,0105	Zfand1	Mus musculus zinc finger, AN1-type domain 1 (Zfand1), mRNA [NM_025512]
A_55_P2173982	-0,74	-4,76	0,0188	Rrm2	Mus musculus ribonucleotide reductase M2 (Rrm2), mRNA [NM_009104]
A_55_P1965154	-0,74	-5,26	0,0128	Spc25	Mus musculus SPC25, NDC80 kinetochore complex component, homolog (S. cerevisiae) (Spc25), transcript variant 1, mRNA [NM_001199123]
A_55_P2085921	-0,74	-5,65	0,0095	Ppp2r5d	Mus musculus protein phosphatase 2, regulatory subunit B', delta (Ppp2r5d), mRNA [NM_009358]
A_55_P1967291	-0,74	-4,42	0,0252	Ncaph	Mus musculus non-SMC condensin I complex, subunit H (Ncaph), mRNA [NM_144818]
A_51_P252199	-0,74	-6,22	0,0064	Mmgt1	Mus musculus membrane magnesium transporter 1 (Mmgt1), mRNA [NM_146234]
A_55_P2205156	-0,74	-6,37	0,0058	Aamdc	Mus musculus adipogenesis associated Mth938 domain containing (Aamdc), transcript variant 3, mRNA [NM_001177946]
A_55_P2254968	-0,74	-5,30	0,0123	BB212172	BB212172 RIKEN full-length enriched, 0 day neonate thymus Mus musculus cDNA clone A430109C16 3'. [BB212172]
A_51_P322123	-0,75	-4,19	0,0304	Rab10os	Mus musculus RAB10, member RAS oncogene family, opposite strand (Rab10os), long non-coding RNA [NR_015551]
A_55_P2080748	-0,75	-4,10	0,0332	BC003965	Mus musculus cDNA sequence BC003965 (BC003965), mRNA [NM_183150]
A_51_P303749	-0,75	-5,89	0,0081	Depdc1b	Mus musculus DEP domain containing 1B (Depdc1b), mRNA [NM_178683]
A_55_P2121491	-0,75	-4,65	0,0206	Bbs9	Mus musculus Bardet-Biedl syndrome 9 (human) (Bbs9), transcript variant 1, mRNA [NM_178415]
A_55_P1963737	-0,75	-5,38	0,0116	Aktip	Mus musculus thymoma viral proto-oncogene 1 interacting protein (Aktip), mRNA [NM_010241]
A_51_P330044	-0,75	-3,86	0,0404	Cyp2j9	Mus musculus cytochrome P450, family 2, subfamily j, polypeptide 9 (Cyp2j9), mRNA [NM_028979]
A_52_P90289	-0,75	-7,08	0,0037	Oaz2	Mus musculus ornithine decarboxylase antizyme 2 (Oaz2), mRNA [NM_010952]
A_55_P1990785	-0,75	-4,86	0,0176	Zranb3	Mus musculus zinc finger, RAN-binding domain containing 3 (Zranb3), transcript variant 1, mRNA [NM_027678]
A_52_P183152	-0,75	-3,86	0,0401	Txn1	Mus musculus thioredoxin-like 1 (Txn1), mRNA [NM_016792]
A_55_P2164297	-0,75	-3,74	0,0451	Rnps1	Mus musculus ribonucleic acid binding protein S1 (Rnps1), transcript variant 1, mRNA [NM_009070]
A_52_P436318	-0,75	-5,07	0,0147	Rps25	Mus musculus ribosomal protein S25 (Rps25), mRNA [NM_024266]
A_52_P458870	-0,75	-3,72	0,0461	Slc25a16	Mus musculus solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16 (Slc25a16), mRNA [NM_175194]
A_51_P487999	-0,75	-4,25	0,0289	Sgol1	Mus musculus shugoshin-like 1 (S. pombe) (Sgol1), mRNA [NM_028232]
A_55_P2129286	-0,76	-8,03	0,0022	Zc3hc1	Mus musculus zinc finger, C3HC type 1 (Zc3hc1), mRNA [NM_172735]
A_55_P2052370	-0,76	-4,72	0,0195	Tia1	Mus musculus cytotoxic granule-associated RNA binding protein 1 (Tia1), transcript variant 1, mRNA [NM_011585]
A_55_P1995007	-0,76	-4,01	0,0355	Arhgap11a	Mus musculus Rho GTPase activating protein 11A (Arhgap11a), mRNA [NM_181416]
A_52_P475080	-0,76	-3,92	0,0383	Arsk	Mus musculus arylsulfatase K (Arsk), mRNA [NM_029847]
A_55_P1960916	-0,76	-7,47	0,0029	Egln3	Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA [NM_028133]
A_55_P2240823	-0,76	-3,97	0,0366	Epb4.1	Mus musculus erythrocyte protein band 4.1 (Epb4.1), transcript variant 2, mRNA [NM_001128606]
A_55_P1971815	-0,76	-5,05	0,0150	Cln2	Mus musculus chloride channel 2 (Cln2), mRNA [NM_009900]
A_55_P2040110	-0,76	-6,10	0,0070	Cdv3	Mus musculus carnitine deficiency-associated gene expressed in ventricle 3 (Cdv3), transcript variant 3, mRNA [NM_001134426]
A_55_P2098688	-0,76	-5,36	0,0118	Mcrs1	Mus musculus microspherule protein 1 (Mcrs1), transcript variant 1, mRNA [NM_016766]
A_52_P630571	-0,76	-5,41	0,0113	Epg5	Mus musculus ectopic P-granules autophagy protein 5 homolog (C. elegans) (Epg5), mRNA [NM_001195633]
A_51_P303725	-0,76	-4,72	0,0194	Tmem38a	Mus musculus transmembrane protein 38A (Tmem38a), mRNA [NM_144534]
A_55_P1956472	-0,76	-5,77	0,0087	Cybrd1	Mus musculus cytochrome b reductase 1 (Cybrd1), mRNA [NM_028593]
A_51_P417858	-0,76	-4,15	0,0315	Zfp825	Mus musculus zinc finger protein 825 (Zfp825), mRNA [NM_146231]
A_55_P1977478	-0,76	-6,57	0,0050	Zfp629	Mus musculus zinc finger protein 629 (Zfp629), mRNA [NM_177226]
A_52_P163939	-0,76	-4,20	0,0303	Cln6	Mus musculus ceroid-lipofuscinosis, neuronal 6 (Cln6), mRNA [NM_001033175]
A_55_P1993789	-0,76	-6,64	0,0048	Hmgn2	Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]
A_51_P270519	-0,76	-4,54	0,0228	Apitd1	Mus musculus apoptosis-inducing, TAF9-like domain 1 (Apitd1), mRNA [NM_027263]



A_55_P2241553	-0,77	-5,17	0,0138	9330133014 Rik	Mus musculus RIKEN cDNA 9330133014 gene (9330133014Rik), long non-coding RNA [NR_045696]
A_51_P199899	-0,77	-6,96	0,0039	Fto	Mus musculus fat mass and obesity associated (Fto), mRNA [NM_011936]
A_55_P1959628	-0,77	-6,27	0,0062	Pfdn4	Mus musculus prefoldin 4 (Pfdn4), transcript variant 1, mRNA [NM_001110152]
A_51_P434426	-0,77	-4,59	0,0218	Rwdd4a	Mus musculus RWD domain containing 4A (Rwdd4a), mRNA [NM_203507]
A_52_P422755	-0,77	-4,84	0,0178	Lsm6	Mus musculus LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm6), transcript variant 2, mRNA [NM_030145]
A_51_P388329	-0,77	-5,67	0,0094	Aff3	Mus musculus AF4/FMR2 family, member 3 (Aff3), mRNA [NM_001290814]
A_51_P257675	-0,77	-5,67	0,0094	Tspyl4	Mus musculus TSPY-like 4 (Tspyl4), mRNA [NM_030203]
A_52_P138723	-0,77	-3,94	0,0376	Edc3	Mus musculus enhancer of mRNA decapping 3 homolog (S. cerevisiae) (Edc3), mRNA [NM_153799]
A_55_P2047225	-0,77	-4,32	0,0275	Uxs1	Mus musculus UDP-glucuronate decarboxylase 1 (Uxs1), mRNA [NM_026430]
A_55_P1994020	-0,77	-5,30	0,0123	Casc4	Mus musculus cancer susceptibility candidate 4 (Casc4), transcript variant 3, mRNA [NM_001205369]
A_51_P425737	-0,77	-5,59	0,0099	Tbc1d7	Mus musculus TBC1 domain family, member 7 (Tbc1d7), transcript variant 2, mRNA [NM_025935]
A_55_P2092194	-0,77	-4,53	0,0231	Camkmt	Mus musculus calmodulin-lysine N-methyltransferase (Camkmt), mRNA [NM_028576]
A_51_P409010	-0,77	-4,95	0,0163	Comp	Mus musculus cartilage oligomeric matrix protein (Comp), mRNA [NM_016685]
A_55_P2077228	-0,77	-5,20	0,0135	Cenpl	Mus musculus centromere protein L (Cenpl), transcript variant 1, mRNA [NM_001159930]
A_55_P2184897	-0,77	-6,00	0,0075	Lbr	Mus musculus lamin B receptor (Lbr), mRNA [NM_133815]
A_55_P2106220	-0,77	-4,94	0,0164	Zfp410	Mus musculus zinc finger protein 410 (Zfp410), transcript variant 3, mRNA [NM_001252583]
A_52_P261322	-0,77	-4,22	0,0298	Tanc1	Mus musculus tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 1 (Tanc1), transcript variant 1, mRNA [NM_198294]
A_55_P2071863	-0,77	-5,90	0,0081	Zfp788	Mus musculus zinc finger protein 788 (Zfp788), mRNA [NM_023363]
A_55_P2028734	-0,78	-4,09	0,0335	Klra16	Mus musculus killer cell lectin-like receptor, subfamily A, member 16 (Klra16), mRNA [NM_013794]
A_55_P1980636	-0,78	-6,01	0,0074	Aurka	Mus musculus aurora kinase A (Aurka), transcript variant 1, mRNA [NM_011497]
A_52_P370935	-0,78	-6,38	0,0057	Glccl1	Mus musculus glucocorticoid induced transcript 1 (Glccl1), transcript variant 1, mRNA [NM_133236]
A_51_P432659	-0,78	-6,14	0,0068	Pex7	Mus musculus peroxisomal biogenesis factor 7 (Pex7), transcript variant 1, mRNA [NM_008822]
A_66_P104312	-0,78	-7,41	0,0031	Pdcl	Mus musculus phosducin-like (Pdcl), mRNA [NM_026176]
A_55_P2067251	-0,78	-5,07	0,0147	Tmpo	Mus musculus thymopoietin (Tmpo), transcript variant 3, mRNA [NM_001080129]
A_55_P2115131	-0,78	-8,04	0,0022	Gm15478	Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230086B08 product:unclassifiable, full insert sequence. [AK048962]
A_55_P2005465	-0,78	-5,44	0,0111	Zfp422	Mus musculus zinc finger protein 422 (Zfp422), mRNA [NM_026057]
A_55_P2258467	-0,78	-3,91	0,0385	Dalrd3	PREDICTED: Mus musculus DALR anticodon binding domain containing 3 (Dalrd3), transcript variant X2, mRNA [XM_006511793]
A_51_P215438	-0,78	-8,25	0,0019	Prodh	Mus musculus proline dehydrogenase (Prodh), mRNA [NM_011172]
A_51_P514224	-0,78	-4,92	0,0167	Pax4	Mus musculus paired box 4 (Pax4), transcript variant 1, mRNA [NM_011038]
A_55_P2177488	-0,78	-6,40	0,0057	Hist2h2be	Mus musculus histone cluster 2, H2be (Hist2h2be), mRNA [NM_178214]
A_55_P2072391	-0,78	-4,75	0,0190	Acp1	Mus musculus acid phosphatase 1, soluble (Acp1), transcript variant 1, mRNA [NM_001110239]
A_55_P2013336	-0,78	-4,10	0,0330	Melk	Mus musculus maternal embryonic leucine zipper kinase (Melk), mRNA [NM_010790]
A_51_P140211	-0,79	-4,67	0,0203	Ndufv3	Mus musculus NADH dehydrogenase (ubiquinone) flavoprotein 3 (Ndufv3), transcript variant 1, mRNA [NM_030087]
A_51_P442964	-0,79	-5,34	0,0120	Casc5	Mus musculus cancer susceptibility candidate 5 (Casc5), mRNA [NM_029617]
A_52_P140356	-0,79	-5,06	0,0148	Calm3	Mus musculus calmodulin 3 (Calm3), mRNA [NM_007590]
A_55_P2417434	-0,79	-6,51	0,0053	E130215H24 Rik	Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130215H24 product:unclassifiable, full insert sequence. [AK160355]
A_52_P565279	-0,79	-4,33	0,0273	Cecr5	Mus musculus cat eye syndrome chromosome region, candidate 5 (Cecr5), mRNA [NM_144815]
A_55_P2165324	-0,79	-4,25	0,0290	Acsl3	Mus musculus acyl-CoA synthetase long-chain family member 3 (Acsl3), transcript variant 1, mRNA [NM_028817]
A_55_P2124016	-0,79	-6,87	0,0041	Nipsnap1	Mus musculus 4-nitrophenylphosphatase domain and non-neuronal SNAP25-like protein homolog 1 (C. elegans) (Nipsnap1), mRNA [NM_008698]
A_51_P351363	-0,79	-6,09	0,0070	Tyms-ps	Mus musculus thymidylate synthase, pseudogene (Tyms-ps), non-coding RNA [NR_000040]
A_51_P262721	-0,79	-6,29	0,0061	0610009L18 Rik	Mus musculus RIKEN cDNA 0610009L18 gene (0610009L18Rik), long non-coding RNA [NR_038126]
A_51_P272106	-0,79	-4,47	0,0242	Cirbp	Mus musculus cold inducible RNA binding protein (Cirbp), mRNA [NM_007705]
A_55_P2026783	-0,79	-4,49	0,0239	Vprbp	Vpr (HIV-1) binding protein [Source:MGI Symbol;Acc:MGI:2445220] [ENSMUST0000055009]
A_51_P273556	-0,79	-7,85	0,0024	Fam83d	Mus musculus family with sequence similarity 83, member D (Fam83d), mRNA [NM_027975]
A_52_P623775	-0,79	-5,49	0,0106	Eri2	Mus musculus exoribonuclease 2 (Eri2), mRNA [NM_027698]

A_51_P407580	-0,79	-4,10	0,0331	Usp24	Mus musculus ubiquitin specific peptidase 24 (Usp24), mRNA [NM_183225]
A_55_P2110245	-0,80	-5,00	0,0156	Figl1	Mus musculus fidgetin-like 1 (Figl1), transcript variant 1, mRNA [NM_001163359]
A_55_P1983773	-0,80	-5,31	0,0122	Birc5	Mus musculus baculoviral IAP repeat-containing 5 (Birc5), transcript variant 3, mRNA [NM_001012273]
A_51_P215077	-0,80	-4,47	0,0240	Mgst3	Mus musculus microsomal glutathione S-transferase 3 (Mgst3), mRNA [NM_0255569]
A_55_P2027136	-0,80	-4,59	0,0217	Hist1h3f	Mus musculus histone cluster 1, H3f (Hist1h3f), mRNA [NM_013548]
A_55_P2076941	-0,80	-4,29	0,0281	Lrr1	Mus musculus leucine rich repeat protein 1 (Lrr1), mRNA [NM_001081406]
A_51_P111488	-0,80	-5,39	0,0114	Gfod2	Mus musculus glucose-fructose oxidoreductase domain containing 2 (Gfod2), mRNA [NM_027469]
A_55_P2094964	-0,80	-6,29	0,0061	Gm7931	PREDICTED: Mus musculus predicted pseudogene 7931 (Gm7931), mRNA [XM_006504239]
A_55_P2072955	-0,80	-4,65	0,0206	Zfp954	Mus musculus zinc finger protein 954 (Zfp954), mRNA [NM_172738]
A_55_P2057102	-0,80	-4,71	0,0197	Sft2d3	Mus musculus SFT2 domain containing 3 (Sft2d3), mRNA [NM_026006]
A_52_P294253	-0,80	-4,22	0,0298	Zfp41	Mus musculus zinc finger protein 41 (Zfp41), transcript variant 1, mRNA [NM_0011759]
A_51_P360880	-0,80	-4,70	0,0198	Zfp266	Mus musculus zinc finger protein 266 (Zfp266), transcript variant 1, mRNA [NM_001082485]
A_55_P2107223	-0,80	-3,95	0,0371	Sult2a6	Mus musculus sulfotransferase family 2A, dehydroepiandrosterone (DHEA)-preferring, member 6 (Sult2a6), mRNA [NM_001081325]
A_51_P369200	-0,80	-4,82	0,0180	Tpx2	Mus musculus TPX2, microtubule-associated protein homolog (Xenopus laevis) (Tpx2), transcript variant 2, mRNA [NM_028109]
A_51_P511734	-0,80	-5,37	0,0116	Snip1	Mus musculus Smad nuclear interacting protein 1 (Snip1), mRNA [NM_175246]
A_66_P100853	-0,80	-5,70	0,0092	Hist1h2ao	Mus musculus histone cluster 1, H2ao (Hist1h2ao), mRNA [NM_001177544]
A_51_P470311	-0,81	-7,43	0,0030	Cby1	Mus musculus chibby homolog 1 (Drosophila) (Cby1), mRNA [NM_028634]
A_51_P513530	-0,81	-5,21	0,0134	Spag5	Mus musculus sperm associated antigen 5 (Spag5), mRNA [NM_017407]
A_52_P632691	-0,81	-4,08	0,0336	Zfp395	Mus musculus zinc finger protein 395 (Zfp395), mRNA [NM_199029]
A_51_P105709	-0,81	-6,23	0,0064	Trip13	Mus musculus thyroid hormone receptor interactor 13 (Trip13), mRNA [NM_027182]
A_51_P293938	-0,81	-5,48	0,0107	Ras11b	Mus musculus RAS-like, family 11, member B (Ras11b), mRNA [NM_026878]
A_55_P2073705	-0,81	-6,34	0,0059	Tfdp2	Mus musculus transcription factor Dp 2 (Tfdp2), transcript variant 1, mRNA [NM_178667]
A_55_P2115297	-0,81	-8,39	0,0018	Ap3s1	Mus musculus adaptor-related protein complex 3, sigma 1 subunit (Ap3s1), mRNA [NM_009681]
A_51_P116421	-0,81	-8,31	0,0019	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 1, mRNA [NM_013790]
A_55_P1990067	-0,81	-6,95	0,0039	Gm9525	PREDICTED: Mus musculus predicted gene 9525 (Gm9525), mRNA [XM_006522818]
A_55_P2098300	-0,81	-4,45	0,0244	Chmp6	Mus musculus charged multivesicular body protein 6 (Chmp6), mRNA [NM_001085498]
A_55_P2127884	-0,81	-4,40	0,0257	Btbd1	Mus musculus BTB (POZ) domain containing 1 (Btbd1), mRNA [NM_146193]
A_65_P12530	-0,81	-4,93	0,0165	Pde4d	Mus musculus phosphodiesterase 4D, cAMP specific (Pde4d), mRNA [NM_011056]
A_51_P222359	-0,81	-4,34	0,0270	Emilin1	Mus musculus elastin microfibril interfacer 1 (Emilin1), mRNA [NM_133918]
A_55_P2263971	-0,81	-3,74	0,0453	6330526H18 Rik	Mus musculus adult male medulla oblongata cDNA, RIKEN full-length enriched library, clone:6330526H18 product:similar to NEPRILYSIN-LIKE PEPTIDASE GAMMA [Mus musculus], full insert sequence. [AK018221]
A_55_P1952714	-0,81	-7,69	0,0026	Kctd2	Mus musculus potassium channel tetramerisation domain containing 2 (Kctd2), mRNA [NM_183285]
A_52_P56397	-0,82	-4,40	0,0258	Clhc1	Mus musculus clathrin heavy chain linker domain containing 1 (Clhc1), mRNA [NM_001081099]
A_51_P433430	-0,82	-5,19	0,0136	Phc1	Mus musculus polyhomeotic-like 1 (Drosophila) (Phc1), transcript variant 1, mRNA [NM_007905]
A_55_P1994519	-0,82	-3,94	0,0376	Tpd52l2	Mus musculus tumor protein D52-like 2 (Tpd52l2), transcript variant 1, mRNA [NM_001291197]
A_52_P476075	-0,82	-4,20	0,0302	Clspn	Mus musculus claspin (Clspn), mRNA [NM_175554]
A_55_P2047753	-0,82	-5,77	0,0087	Tec	Mus musculus tec protein tyrosine kinase (Tec), transcript variant 1, mRNA [NM_001113460]
A_55_P2090239	-0,82	-5,59	0,0099	Casp8ap2	Mus musculus caspase 8 associated protein 2 (Casp8ap2), transcript variant 1, mRNA [NM_011997]
A_51_P175232	-0,82	-4,61	0,0214	Fbxl4	Mus musculus F-box and leucine-rich repeat protein 4 (Fbxl4), transcript variant 1, mRNA [NM_172988]
A_52_P450123	-0,82	-4,51	0,0234	Ranbp6	Mus musculus RAN binding protein 6 (Ranbp6), mRNA [NM_177721]
A_52_P164136	-0,82	-4,21	0,0301	Arrdc3	Mus musculus arrestin domain containing 3 (Arrdc3), mRNA [NM_001042591]
A_55_P2064984	-0,82	-4,69	0,0198	Cenpi	Mus musculus centromere protein 1 (Cenpi), mRNA [NM_145924]
A_52_P191567	-0,82	-5,49	0,0106	Plcl1	Mus musculus phospholipase C-like 1 (Plcl1), mRNA [NM_001114663]
A_51_P116906	-0,82	-5,91	0,0080	Rapgef3	Mus musculus Rap guanine nucleotide exchange factor (GEF) 3 (Rapgef3), transcript variant 2, mRNA [NM_144850]
A_55_P2043862	-0,82	-7,32	0,0032	Stmn1	Mus musculus stathmin 1 (Stmn1), mRNA [NM_019641]
A_51_P120717	-0,82	-6,40	0,0057	Lmnb1	Mus musculus lamin B1 (Lmnb1), mRNA [NM_010721]
A_51_P446558	-0,82	-4,46	0,0244	1810026J23Rik	Mus musculus RIKEN cDNA 1810026J23 gene (1810026J23Rik), mRNA [NM_178619]

A_66_P121656	-0,82	-5,31	0,0122	Pcgf1	Mus musculus polycomb group ring finger 1 (Pcgf1), mRNA [NM_197992]
A_55_P2185870	-0,82	-5,95	0,0077	Bcl7a	Mus musculus B cell CLL/lymphoma 7A (Bcl7a), mRNA [NM_029850]
A_55_P2043322	-0,82	-5,93	0,0079	Rnf26	Mus musculus ring finger protein 26 (Rnf26), mRNA [NM_153762]
A_55_P2048096	-0,83	-5,01	0,0154	Mzf1	Mus musculus myeloid zinc finger 1 (Mzf1), transcript variant 3, mRNA [NM_001290453]
A_55_P2056654	-0,83	-4,72	0,0195	Kif22	Mus musculus kinesin family member 22 (Kif22), mRNA [NM_145588]
A_52_P164709	-0,83	-5,43	0,0111	Poc1a	Mus musculus POC1 centriolar protein homolog A (Chlamydomonas) (Poc1a), mRNA [NM_027354]
A_51_P351137	-0,83	-4,88	0,0173	Tbce	Mus musculus tubulin-specific chaperone E (Tbce), mRNA [NM_178337]
A_51_P202623	-0,83	-8,23	0,0020	Mterfd3	Mus musculus MTERF domain containing 3 (Mterfd3), mRNA [NM_028832]
A_51_P422369	-0,83	-3,99	0,0361	Odf3b	Mus musculus outer dense fiber of sperm tails 3B (Odf3b), mRNA [NM_001013022]
A_55_P2148243	-0,83	-7,14	0,0035	Wdr12	Mus musculus WD repeat domain 12, mRNA (cDNA clone MGC:7936 IMAGE:358395), complete cds. [BC004748]
A_52_P407692	-0,83	-4,34	0,0269	H2afj	Mus musculus H2A histone family, member J (H2afj), mRNA [NM_177688]
A_52_P464629	-0,83	-7,20	0,0034	Nme7	Mus musculus NME/NM23 family member 7 (Nme7), transcript variant 1, mRNA [NM_138314]
A_55_P2103796	-0,83	-4,10	0,0330	Arhgap11a	Mus musculus Rho GTPase activating protein 11A (Arhgap11a), mRNA [NM_181416]
A_51_P438083	-0,83	-4,51	0,0235	Slc6a13	Mus musculus solute carrier family 6 (neurotransmitter transporter, GABA), member 13 (Slc6a13), mRNA [NM_144512]
A_52_P162957	-0,83	-6,65	0,0048	Frat2	Mus musculus frequently rearranged in advanced T cell lymphomas 2 (Frat2), mRNA [NM_177603]
A_52_P229316	-0,84	-4,49	0,0237	Galnt4	Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (Galnt4), mRNA [NM_015737]
A_55_P2241204	-0,84	-4,00	0,0359	1500015A07 Rik	Mus musculus RIKEN cDNA 1500015A07 gene (1500015A07Rik), long non-coding RNA [NR_029432]
A_52_P650473	-0,84	-5,22	0,0132	LOC102635760	PREDICTED: Mus musculus coiled-coil-helix-coiled-coil-helix domain-containing protein 5-like (LOC102635760), mRNA [XM_006544640]
A_51_P364421	-0,84	-5,82	0,0085	Vamp7	Mus musculus vesicle-associated membrane protein 7 (Vamp7), mRNA [NM_011515]
A_55_P2133255	-0,84	-6,57	0,0050	Mad2l1	Mus musculus MAD2 mitotic arrest deficient-like 1 (Mad2l1), mRNA [NM_019499]
A_51_P114353	-0,84	-3,71	0,0464	Ctu1	Mus musculus cytosolic thioridylase subunit 1 homolog (S. pombe) (Ctu1), mRNA [NM_145582]
A_55_P2128646	-0,84	-5,22	0,0132	Gmn	Mus musculus geminin (Gmn), mRNA [NM_020567]
A_52_P587948	-0,84	-5,10	0,0145	Zfp11	Mus musculus zinc finger protein 11 (Zfp11), mRNA [NM_172462]
A_55_P2079324	-0,84	-3,69	0,0473	Sephs2	Mus musculus selenophosphate synthetase 2 (Seps2), mRNA [NM_009266]
A_52_P584188	-0,84	-4,47	0,0240	Frat1	Mus musculus frequently rearranged in advanced T cell lymphomas (Frat1), mRNA [NM_008043]
A_55_P1969266	-0,84	-4,75	0,0190	Zfp748	Mus musculus zinc finger protein 748 (Zfp748), mRNA [NM_001035231]
A_55_P2090817	-0,84	-6,68	0,0047	MacroD2	Mus musculus MACRO domain containing 2 (MacroD2), transcript variant 2, mRNA [NM_028387]
A_51_P509452	-0,85	-5,49	0,0106	Tmlhe	Mus musculus trimethyllysine hydroxylase, epsilon (Tmlhe), mRNA [NM_138758]
A_55_P2021792	-0,85	-4,87	0,0174	Dyrk1b	Mus musculus dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1b (Dyrk1b), transcript variant 1, mRNA [NM_001037957]
A_52_P378287	-0,85	-5,71	0,0092	Lca5	Mus musculus Leber congenital amaurosis 5 (human) (Lca5), transcript variant 2, mRNA [NM_027448]
A_52_P494982	-0,85	-5,27	0,0127	Dhx40	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 40 (Dhx40), mRNA [NM_026191]
A_55_P2043762	-0,85	-5,98	0,0076	N6amt1	Mus musculus N-6 adenine-specific DNA methyltransferase 1 (putative) (N6amt1), transcript variant 1, mRNA [NM_026366]
A_55_P2094079	-0,85	-4,36	0,0267	Terf2ip	Mus musculus telomeric repeat binding factor 2, interacting protein (Terf2ip), mRNA [NM_020584]
A_51_P500718	-0,85	-4,81	0,0181	Dck	Mus musculus deoxycytidine kinase (Dck), mRNA [NM_007832]
A_55_P2131438	-0,85	-4,97	0,0160	Hist2h2aa2	Mus musculus histone cluster 2, H2aa2 (Hist2h2aa2), mRNA [NM_178212]
A_51_P123405	-0,85	-5,87	0,0082	Bub1	Mus musculus budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae) (Bub1), transcript variant 2, mRNA [NM_009772]
A_52_P387009	-0,85	-8,37	0,0018	Egln3	Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA [NM_028133]
A_55_P1960286	-0,85	-4,97	0,0160	Spns3	Mus musculus spinster homolog 3 (Spns3), mRNA [NM_029932]
A_66_P110970	-0,85	-6,17	0,0066	Tpd52l2	Mus musculus tumor protein D52-like 2 (Tpd52l2), transcript variant 1, mRNA [NM_001291197]
A_55_P2398399	-0,85	-4,23	0,0296	Astn2	Mus musculus astrotactin 2 (Astn2), transcript variant 2, mRNA [NM_207109]
A_55_P2070576	-0,85	-4,29	0,0281	Ccl27a	Mus musculus chemokine (C-C motif) ligand 27A (Ccl27a), transcript variant 1, mRNA [NM_001048179]
A_51_P399614	-0,85	-5,80	0,0086	Zkscan14	Mus musculus zinc finger with KRAB and SCAN domains 14 (Zkscan14), mRNA [NM_023322]
A_55_P2017476	-0,85	-5,16	0,0138	Nfyb	Mus musculus nuclear transcription factor-Y beta (Nfyb), mRNA [NM_010914]
A_52_P441044	-0,85	-4,24	0,0293	Rfxap	Mus musculus regulatory factor X-associated protein (Rfxap), mRNA [NM_133231]
A_55_P1994939	-0,85	-6,31	0,0060	Hmgb2	Mus musculus high mobility group box 2 (Hmgb2), mRNA [NM_008252]
A_55_P2106150	-0,85	-5,17	0,0138	Cenpk	Mus musculus centromere protein K (Cenpk), transcript variant 1, mRNA [NM_021790]

A_55_P2283207	-0.86	-4.60	0,0216	Maz	Mus musculus MYC-associated zinc finger protein (purine-binding transcription factor) (Maz), mRNA [NM_010772]
A_55_P2068663	-0.86	-7.83	0,0024	Stmn1	Mus musculus stathmin 1 (Stmn1), mRNA [NM_019641]
A_55_P2190299	-0.86	-5.02	0,0154	Fggy	Mus musculus FGGY carbohydrate kinase domain containing (Fggy), transcript variant 1, mRNA [NM_00113412]
A_52_P152219	-0.86	-4.17	0,0310	Rpgrip1l	Mus musculus Rpgrip1-like (Rpgrip1l), mRNA [NM_173431]
A_51_P150087	-0.86	-5.58	0,0099	Abhd10	Mus musculus abhydrolase domain containing 10 (Abhd10), transcript variant 1, mRNA [NM_172511]
A_55_P2163561	-0.86	-5.09	0,0146	Syt1l	Mus musculus synaptotagmin-like 1 (Syt1l), mRNA [NM_031393]
A_55_P1968833	-0.86	-5.49	0,0106	Rpgr	Mus musculus retinitis pigmentosa GTPase regulator (Rpgr), transcript variant 1, mRNA [NM_001177950]
A_52_P250555	-0.86	-3.97	0,0367	Dynll1	Mus musculus dynein light chain LC8-type 1 (Dynll1), mRNA [NM_019682]
A_55_P2123421	-0.86	-6.45	0,0055	Dnal4	Mus musculus dynein, axonemal, light chain 4 (Dnal4), mRNA [NM_017470]
A_55_P2094966	-0.87	-3.77	0,0440	Hist2h3b	Mus musculus histone cluster 2, H3b (Hist2h3b), mRNA [NM_178215]
A_52_P496628	-0.87	-4.01	0,0356	2700081015 Rik	Mus musculus RIKEN cDNA 2700081015 gene (2700081015Rik), mRNA [NM_175381]
A_51_P399071	-0.87	-4.04	0,0346	Anp32a	Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member A (Anp32a), mRNA [NM_009672]
A_55_P2020876	-0.87	-4.06	0,0341	Haus6	Mus musculus HAUS augmin-like complex, subunit 6 (Haus6), mRNA [NM_173400]
A_55_P2180764	-0.87	-5.56	0,0101	Gls	Mus musculus glutaminase (Gls), transcript variant 1, mRNA [NM_001081081]
A_52_P445622	-0.87	-6.04	0,0073	2610002M06 Rik	Mus musculus RIKEN cDNA 2610002M06 gene (2610002M06Rik), mRNA [NM_025921]
A_51_P135037	-0.87	-3.86	0,0402	Preb	Mus musculus prolactin regulatory element binding (Preb), mRNA [NM_016703]
A_55_P2085460	-0.87	-4.80	0,0183	5530601H04 Rik	Mus musculus RIKEN cDNA 5530601H04 gene (5530601H04Rik), long non-coding RNA [NR_015467]
A_51_P160913	-0.87	-5.24	0,0130	Mr1	Mus musculus major histocompatibility complex, class I-related (Mr1), mRNA [NM_008209]
A_55_P2019407	-0.87	-3.66	0,0484	Bhlhb9	Mus musculus basic helix-loop-helix domain containing, class B9 (Bhlhb9), transcript variant 1, mRNA [NM_198161]
A_52_P475870	-0.87	-7.52	0,0029	Tmem29	Mus musculus transmembrane protein 29 (Tmem29), transcript variant 3, mRNA [NM_001164686]
A_52_P211418	-0.87	-4.96	0,0162	G2e3	Mus musculus G2/M-phase specific E3 ubiquitin ligase (G2e3), transcript variant 2, mRNA [NM_001167963]
A_52_P137371	-0.87	-6.19	0,0065	Hmgcr	Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A reductase (Hmgcr), mRNA [NM_008255]
A_55_P1992421	-0.87	-7.05	0,0038	Hmgb3	Mus musculus high mobility group box 3 (Hmgb3), mRNA [NM_008253]
A_51_P293607	-0.87	-4.07	0,0337	Mrps14	Mus musculus mitochondrial ribosomal protein S14 (Mrps14), mRNA [NM_025474]
A_55_P2011436	-0.87	-8.28	0,0019	Gm11223	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4932436F18 product:leukemia-associated gene, full insert sequence. [AK030082]
A_52_P526852	-0.88	-5.33	0,0120	Eri1	Mus musculus exoribonuclease 1 (Eri1), mRNA [NM_026067]
A_51_P221651	-0.88	-4.84	0,0177	Adck3	Mus musculus aarF domain containing kinase 3 (Adck3), transcript variant 1, mRNA [NM_023341]
A_55_P1976127	-0.88	-5.41	0,0114	Ect2	Mus musculus ect2 oncogene (Ect2), transcript variant 1, mRNA [NM_007900]
A_52_P672740	-0.88	-4.77	0,0187	Rala	Mus musculus v-ral simian leukemia viral oncogene homolog A (ras related) (Rala), mRNA [NM_019491]
A_55_P2105200	-0.88	-4.85	0,0176	Fam175a	Mus musculus family with sequence similarity 175, member A (Fam175a), mRNA [NM_172405]
A_51_P424561	-0.88	-5.71	0,0091	Zfp93	Mus musculus zinc finger protein 93 (Zfp93), mRNA [NM_009567]
A_51_P138923	-0.88	-4.24	0,0293	Peg12	Mus musculus paternally expressed 12 (Peg12), mRNA [NM_013788]
A_51_P217706	-0.88	-5.68	0,0093	Ribc1	Mus musculus RIB43A domain with coiled-coils 1 (Ribc1), mRNA [NM_025660]
A_51_P467505	-0.88	-8.12	0,0021	Tec	Mus musculus tec protein tyrosine kinase (Tec), transcript variant 4, mRNA [NM_013689]
A_51_P299739	-0.88	-3.95	0,0371	D10Wsu102e	Mus musculus DNA segment, Chr 10, Wayne State University 102, expressed (D10Wsu102e), mRNA [NM_026579]
A_51_P510663	-0.88	-4.91	0,0170	Supt3	Mus musculus suppressor of Ty 3 (Supt3), mRNA [NM_178652]
A_66_P102607	-0.88	-6.65	0,0048	Btrc	Mus musculus beta-transducin repeat containing protein (Btrc), transcript variant 1, mRNA [NM_001037758]
A_52_P129443	-0.88	-4.09	0,0333	Wdpcp	Mus musculus WD repeat containing planar cell polarity effector (Wdpcp), mRNA [NM_145425]
A_55_P1977284	-0.88	-4.01	0,0356	Zbtb9	Mus musculus zinc finger and BTB domain containing 9 (Zbtb9), mRNA [NM_001005916]
A_55_P2114482	-0.89	-7.15	0,0035	Rpgr	Mus musculus retinitis pigmentosa GTPase regulator (Rpgr), transcript variant 1, mRNA [NM_001177950]
A_51_P492830	-0.89	-5.64	0,0096	Cenph	Mus musculus centromere protein H (Cenph), mRNA [NM_021886]
A_55_P2177371	-0.89	-4.29	0,0281	Gm3086	Mus musculus predicted gene 3086 (Gm3086), non-coding RNA [NR_036607]
A_51_P451151	-0.89	-6.75	0,0045	Ube2c	Mus musculus ubiquitin-conjugating enzyme E2C (Ube2c), mRNA [NM_026785]
A_55_P2161353	-0.89	-7.21	0,0034	Kcnmb4	Mus musculus potassium large conductance calcium-activated channel, subfamily M, beta member 4 (Kcnmb4), mRNA [NM_021452]
A_55_P1984751	-0.89	-7.30	0,0033	Ppp1r14b	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14B, mRNA (cDNA clone MGC:99938 IMAGE:6820968), complete cds. [BC082545]
A_55_P2174816	-0.89	-6.13	0,0068	Zfp266	Mus musculus zinc finger protein 266 (Zfp266), transcript variant 1, mRNA [NM_001082485]

A_51_P425847	-0.89	-4.48	0,0240	Ulbp1	Mus musculus 13 days embryo heart cDNA, RIKEN full-length enriched library, clone:D330035A03 product:hypothetical Major histocompatibility complex protein, Class I containing protein, full insert sequence. [AK084712]
A_55_P2000833	-0.89	-5.43	0,0111	E2f8	Mus musculus E2F transcription factor 8 (E2f8), mRNA [NM_001013368]
A_51_P369628	-0.89	-5.98	0,0076	Ptov1	Mus musculus prostate tumor over expressed gene 1 (Ptov1), mRNA [NM_133949]
A_55_P2022773	-0.89	-7.52	0,0029	Glccl1	Mus musculus glucocorticoid induced transcript 1 (Glccl1), transcript variant 1, mRNA [NM_133236]
A_55_P2177426	-0.89	-5.11	0,0144	Abcb8	Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 8 (Abcb8), mRNA [NM_029020]
A_51_P213592	-0.90	-3.97	0,0365	Nrde2	Mus musculus nrde-2 necessary for RNA interference, domain containing (Nrde2), transcript variant 1, mRNA [NM_001290303]
A_65_P11504	-0.90	-4.35	0,0267	Zfp85	Mus musculus zinc finger protein 85 (Zfp85), mRNA [NM_001001130]
A_55_P2079390	-0.90	-7.87	0,0024	4930579G24 Rik	Mus musculus RIKEN cDNA 4930579G24 gene (4930579G24Rik), mRNA [NM_029482]
A_55_P2007566	-0.90	-4.74	0,0191	Trmt61b	Mus musculus tRNA methyltransferase 61B (Trmt61b), transcript variant 2, long non-coding RNA [NR_027952]
A_55_P2002689	-0.90	-7.58	0,0028	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_55_P2043330	-0.90	-3.97	0,0366	Rnf26	Mus musculus ring finger protein 26 (Rnf26), mRNA [NM_153762]
A_52_P655265	-0.90	-4.00	0,0360	Bora	Mus musculus bora, aurora kinase A activator (Bora), mRNA [NM_175265]
A_51_P455897	-0.90	-5.12	0,0143	Fam64a	Mus musculus family with sequence similarity 64, member A (Fam64a), mRNA [NM_144526]
A_51_P502957	-0.90	-3.67	0,0478	Stxbp4	Mus musculus syntaxin binding protein 4 (Stxbp4), mRNA [NM_011505]
A_55_P2139456	-0.90	-4.10	0,0330	Odf2l	Mus musculus outer dense fiber of sperm tails 2-like (Odf2l), transcript variant 3, mRNA [NM_001162539]
A_51_P430423	-0.90	-7.77	0,0025	Ada	Mus musculus adenosine deaminase (Ada), transcript variant 2, mRNA [NM_007398]
A_52_P286098	-0.91	-4.57	0,0223	Epb4.114b	Mus musculus erythrocyte protein band 4.1-like 4b (Epb4.114b), mRNA [NM_019427]
A_51_P511680	-0.91	-3.75	0,0448	Ttc38	Mus musculus tetratricopeptide repeat domain 38 (Ttc38), mRNA [NM_001033337]
A_66_P125209	-0.91	-3.94	0,0376	Kif2c	Mus musculus kinesin family member 2C (Kif2c), transcript variant 2, mRNA [NM_001290662]
A_52_P257686	-0.91	-4.43	0,0251	Rwdd3	Mus musculus RWD domain containing 3 (Rwdd3), transcript variant 2, mRNA [NM_028456]
A_52_P281711	-0.91	-4.98	0,0158	Wdr5b	Mus musculus WD repeat domain 5B (Wdr5b), mRNA [NM_027113]
A_51_P100174	-0.91	-8.30	0,0019	Mns1	Mus musculus meiosis-specific nuclear structural protein 1 (Mns1), mRNA [NM_008613]
A_52_P125350	-0.91	-7.39	0,0031	Anp32e	Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member E (Anp32e), transcript variant 1, mRNA [NM_023210]
A_51_P492742	-0.91	-7.21	0,0034	Bbs10	Mus musculus Bardet-Biedl syndrome 10 (human) (Bbs10), mRNA [NM_027914]
A_52_P662244	-0.91	-6.18	0,0066	Slc25a47	Mus musculus solute carrier family 25, member 47 (Slc25a47), mRNA [NM_001012310]
A_51_P442642	-0.91	-4.28	0,0282	Cadm2	Mus musculus cell adhesion molecule 2 (Cadm2), transcript variant 1, mRNA [NM_178721]
A_52_P367745	-0.91	-6.04	0,0073	Acads	Mus musculus acyl-Coenzyme A dehydrogenase, short chain (Acads), mRNA [NM_007383]
A_51_P158018	-0.92	-6.01	0,0074	Bend5	Mus musculus BEN domain containing 5 (Bend5), transcript variant 1, mRNA [NM_026279]
A_55_P2017199	-0.92	-4.23	0,0295	Nup188	Mus musculus nucleoporin 188 (Nup188), mRNA [NM_198304]
A_55_P2182740	-0.92	-4.98	0,0158	2310047D07 Rik	PREDICTED: Mus musculus RIKEN cDNA 2310047D07 gene (2310047D07Rik), transcript variant X1, misc_RNA [XR_104959]
A_52_P157170	-0.92	-5.37	0,0116	Rnf157	Mus musculus ring finger protein 157 (Rnf157), mRNA [NM_027258]
A_51_P518542	-0.92	-5.01	0,0155	Olf944	Mus musculus olfactory receptor 944 (Olf944), mRNA [NM_146507]
A_55_P2013612	-0.92	-4.40	0,0257	Gm11677	PREDICTED: Mus musculus predicted gene 11677 (Gm11677), mRNA [XM_006534645]
A_55_P2048284	-0.92	-3.84	0,0409	Aasdhptt	Mus musculus aminoacidate-semialdehyde dehydrogenase-phosphopantetheinyl transferase (Aasdhptt), mRNA [NM_026276]
A_52_P529570	-0.92	-6.26	0,0063	Nsl1	Mus musculus NSL1, MIND kinetochore complex component, homolog (S. cerevisiae) (Nsl1), mRNA [NM_198654]
A_52_P110068	-0.92	-4.84	0,0178	Rqcd1	Mus musculus rcd1 (required for cell differentiation) homolog 1 (S. pombe) (Rqcd1), mRNA [NM_021383]
A_55_P2099064	-0.93	-4.04	0,0346	Whsc1	Mus musculus Wolf-Hirschhorn syndrome candidate 1 (human) (Whsc1), transcript variant 1, mRNA [NM_001081102]
A_55_P1965160	-0.93	-3.95	0,0371	Tdrd5	Mus musculus tudor domain containing 5 (Tdrd5), transcript variant 1, mRNA [NM_001134741]
A_52_P38157	-0.93	-5.70	0,0092	Lypla1	Mus musculus lysophospholipase 1 (Lypla1), mRNA [NM_008866]
A_51_P386503	-0.93	-4.25	0,0291	Abhd15	Mus musculus abhydrolase domain containing 15 (Abhd15), mRNA [NM_026185]
A_51_P488554	-0.93	-6.21	0,0065	3010026009 Rik	Mus musculus RIKEN cDNA 3010026009 gene (3010026009Rik), mRNA [NM_026543]
A_55_P2326205	-0.93	-5.54	0,0102	2810405F17 Rik	Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810405F17 product:unclassifiable, full insert sequence. [AK012993]
A_55_P2063495	-0.94	-4.03	0,0350	Dph3	Mus musculus diphthamine biosynthesis 3 (Dph3), transcript variant 1, mRNA [NM_172254]
A_66_P114381	-0.94	-5.00	0,0156	Ypel2	Mus musculus yippee-like 2 (Drosophila) (Ypel2), mRNA [NM_001005341]
A_65_P14325	-0.94	-5.14	0,0141	Atl2	Mus musculus atlastin GTPase 2 (Atl2), transcript variant 3, mRNA [NM_001286647]



A_52_P552550	-0,94	-5,06	0,0148	Agtrap	Mus musculus angiotensin II, type I receptor-associated protein (Agtrap), mRNA [NM_009642]
A_52_P110689	-0,94	-3,63	0,0497	Orc3	Mus musculus origin recognition complex, subunit 3 (Orc3), transcript variant 1, mRNA [NM_015824]
A_55_P1955771	-0,94	-4,55	0,0227	LOC675947	PREDICTED: Mus musculus multiple epidermal growth factor-like domains protein 6-like (LOC675947), mRNA [XM_006543187]
A_55_P2146389	-0,94	-4,38	0,0261	6530403G13 Rik	RIKEN cDNA 6530403G13 gene [Source:MGI Symbol;Acc:MGI:1923477] [ENSMUST00000065124]
A_55_P2003353	-0,94	-5,99	0,0076	Gemin8	Mus musculus gem (nuclear organelle) associated protein 8 (Gemin8), mRNA [NM_146238]
A_55_P1997997	-0,94	-3,63	0,0497	Klra23	Mus musculus killer cell lectin-like receptor subfamily A, member 23 (Klra23), mRNA [NM_024470]
A_55_P2040743	-0,94	-6,76	0,0045	Zwilch	Mus musculus zwilch kinetochore protein (Zwilch), mRNA [NM_026507]
A_51_P204402	-0,95	-6,02	0,0074	Shcbp1	Mus musculus Shc SH2-domain binding protein 1 (Shcbp1), mRNA [NM_011369]
A_55_P2051766	-0,95	-4,68	0,0200	Cbx1	Mus musculus chromobox 1 (Cbx1), mRNA [NM_007622]
A_55_P2142575	-0,95	-6,45	0,0055	Tdrd5	Mus musculus tudor domain containing 5 (Tdrd5), transcript variant 1, mRNA [NM_001134741]
A_51_P501018	-0,95	-6,43	0,0056	Nek2	Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 2 (Nek2), mRNA [NM_010892]
A_52_P411003	-0,95	-4,41	0,0253	Dlgap5	Mus musculus discs, large (Drosophila) homolog-associated protein 5 (Dlgap5), mRNA [NM_144553]
A_52_P368262	-0,95	-4,39	0,0258	Bcl7c	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230063C04 product:inferred: Similar to B-cell CLL/lymphoma 7C (Mus musculus), full insert sequence. [AK038789]
A_66_P129188	-0,95	-5,57	0,0100	Hist2h2ac	Mus musculus histone cluster 2, H2ac (Hist2h2ac), mRNA [NM_175662]
A_55_P2145711	-0,95	-4,08	0,0336	Tox3	Mus musculus TOX high mobility group box family member 3 (Tox3), mRNA [NM_172913]
A_55_P2168466	-0,95	-5,79	0,0086	Brox	Mus musculus BRO1 domain and CAAX motif containing (Brox), mRNA [NM_027861]
A_55_P2011220	-0,95	-7,51	0,0029	Armcx1	Mus musculus armadillo repeat containing, X-linked 1 (Armcx1), transcript variant 1, mRNA [NM_001166377]
A_55_P2170817	-0,95	-3,99	0,0362	AI847159	Mus musculus expressed sequence AI847159 (AI847159), long non-coding RNA [NR_045264]
A_55_P2084666	-0,95	-5,45	0,0109	Hist1h2af	Mus musculus histone cluster 1, H2af (Hist1h2af), mRNA [NM_175661]
A_51_P416509	-0,96	-5,07	0,0147	Hist1h1a	Mus musculus histone cluster 1, H1a (Hist1h1a), mRNA [NM_030609]
A_52_P274028	-0,96	-3,86	0,0403	Ssr1	Mus musculus signal sequence receptor, alpha (Ssr1), mRNA [NM_025965]
A_55_P2067719	-0,96	-4,38	0,0261	Pcdhgb1	Mus musculus protocadherin gamma subfamily B, 1 (Pcdhgb1), mRNA [NM_033574]
A_55_P2035326	-0,96	-7,03	0,0038	D5Ert605e	Mus musculus DNA segment, Chr 5, ERATO Doi 605, expressed (D5Ert605e), long non-coding RNA [NR_033625]
A_51_P345316	-0,96	-4,06	0,0341	Cep76	Mus musculus centrosomal protein 76 (Cep76), mRNA [NM_001081073]
A_51_P506787	-0,96	-5,47	0,0108	Nap111	Mus musculus nucleosome assembly protein 1-like 1 (Nap111), transcript variant 1, mRNA [NM_001146707]
A_55_P2168461	-0,96	-5,96	0,0077	Brox	Mus musculus BRO1 domain and CAAX motif containing (Brox), mRNA [NM_027861]
A_66_P107536	-0,96	-6,33	0,0059	Gm9958	Mus musculus predicted gene 9958 (Gm9958), long non-coding RNA [NR_045618]
A_55_P2099961	-0,96	-6,35	0,0058	Hist1h2ag	Mus musculus histone cluster 1, H2ag (Hist1h2ag), mRNA [NM_178186]
A_52_P641367	-0,96	-8,37	0,0018	Desi1	Mus musculus desumoylating isopeptidase 1 (Desi1), mRNA [NM_134095]
A_52_P551707	-0,96	-3,73	0,0458	Kdm6a	Mus musculus lysine (K)-specific demethylase 6A (Kdm6a), mRNA [NM_009483]
A_51_P281582	-0,96	-7,81	0,0024	Lrrc42	Mus musculus leucine rich repeat containing 42 (Lrrc42), mRNA [NM_029985]
A_51_P331207	-0,96	-6,14	0,0068	Tmem218	Mus musculus transmembrane protein 218 (Tmem218), mRNA [NM_025464]
A_51_P154083	-0,96	-4,06	0,0341	Mettl3	Mus musculus methyltransferase like 3 (Mettl3), mRNA [NM_019721]
A_55_P2056986	-0,97	-3,85	0,0406	Lyrm7	LYR motif containing 7 [Source:MGI Symbol;Acc:MGI:1922780] [ENSMUST00000148070]
A_55_P2084652	-0,97	-6,23	0,0064	Hist1h2ak	Mus musculus histone cluster 1, H2ak (Hist1h2ak), mRNA [NM_178183]
A_52_P613643	-0,97	-4,21	0,0299	Zfp3	Mus musculus zinc finger protein 3 (Zfp3), mRNA [NM_177565]
A_55_P1983769	-0,97	-6,45	0,0055	Birc5	Mus musculus baculoviral IAP repeat-containing 5 (Birc5), transcript variant 3, mRNA [NM_001012273]
A_51_P156934	-0,97	-8,80	0,0014	Dnajc15	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 15 (Dnajc15), mRNA [NM_025384]
A_52_P426863	-0,97	-3,71	0,0464	C230052112Rik	Mus musculus RIKEN cDNA C230052112 gene (C230052112Rik), mRNA [NM_178643]
A_55_P1972018	-0,97	-3,93	0,0377	Hist1h4c	Mus musculus histone cluster 1, H4c (Hist1h4c), mRNA [NM_178208]
A_51_P292550	-0,97	-5,10	0,0145	Chdh	Mus musculus choline dehydrogenase (Chdh), transcript variant 1, mRNA [NM_001136240]
A_55_P1969615	-0,97	-3,66	0,0485	Pnck	Mus musculus pregnancy upregulated non-ubiquitously expressed CaM kinase (Pnck), transcript variant 1, mRNA [NM_001199351]
A_51_P460398	-0,97	-4,10	0,0332	Zfp65	Mus musculus zinc finger protein 65 (Zfp65), mRNA [NM_145622]
A_55_P1988373	-0,97	-6,12	0,0069	Cenpu	Mus musculus centromere protein U (Cenpu), mRNA [NM_027973]
A_65_P17827	-0,97	-7,27	0,0034	Cenpl	Mus musculus centromere protein L (Cenpl), transcript variant 2, mRNA [NM_027429]
A_51_P240453	-0,97	-6,69	0,0047	Nusap1	Mus musculus nucleolar and spindle associated protein 1 (Nusap1), transcript variant 1, mRNA [NM_133851]

A_55_P2056473	-0,97	-6,26	0,0063	Spc24	Mus musculus SPC24, NDC80 kinetochore complex component, homolog ( <i>S. cerevisiae</i> ) (Spc24), mRNA [NM_026282]
A_52_P164161	-0,97	-4,31	0,0276	Cyp51	Mus musculus cytochrome P450, family 51 (Cyp51), mRNA [NM_020010]
A_55_P2015495	-0,98	-5,65	0,0095	Abat	Mus musculus 4-aminobutyrate aminotransferase (Abat), transcript variant 1, mRNA [NM_172961]
A_51_P363642	-0,98	-4,49	0,0238	1700088E04 Rik	Mus musculus RIKEN cDNA 1700088E04 gene (1700088E04Rik), mRNA [NM_138581]
A_55_P2054256	-0,98	-5,61	0,0098	Mzt2	Mus musculus mitotic spindle organizing protein 2 (Mzt2), mRNA [NM_029354]
A_55_P2013928	-0,98	-5,97	0,0076	Dhrs13	Mus musculus dehydrogenase/reductase (SDR family) member 13 (Dhrs13), mRNA [NM_183286]
A_55_P2105045	-0,98	-6,53	0,0052	Zfp335os	PREDICTED: Mus musculus zinc finger protein 335, opposite strand (Zfp335os), transcript variant X1, misc_RNA [XR_104757]
A_55_P2008895	-0,98	-4,08	0,0335	Tmsb15b1	Mus musculus thymosin beta 15b1 (Tmsb15b1), mRNA [NM_001081983]
A_51_P490509	-0,99	-5,17	0,0138	Bub1b	Mus musculus budding uninhibited by benzimidazoles 1 homolog, beta ( <i>S. cerevisiae</i> ) (Bub1b), mRNA [NM_009773]
A_55_P2158701	-0,99	-3,82	0,0419	Hist1h4d	Mus musculus histone cluster 1, H4d (Hist1h4d), mRNA [NM_175654]
A_55_P2099605	-0,99	-3,94	0,0374	Ect2	ect2 oncogene [Source:MGI Symbol:Acc:MGI:95281] [ENSMUST00000108296]
A_51_P317115	-0,99	-5,16	0,0139	Wdr18	Mus musculus WD repeat domain 18 (Wdr18), mRNA [NM_175450]
A_51_P254805	-0,99	-4,83	0,0178	Kif4	Mus musculus kinesin family member 4 (Kif4), mRNA [NM_008446]
A_55_P2091147	-0,99	-3,74	0,0451	Hist1h4k	Mus musculus histone cluster 1, H4k (Hist1h4k), mRNA [NM_178211]
A_51_P162116	-0,99	-6,87	0,0041	Mblac1	Mus musculus metallo-beta-lactamase domain containing 1 (Mblac1), mRNA [NM_177878]
A_55_P2333580	-0,99	-4,80	0,0183	BC020402	Mus musculus cDNA sequence BC020402 (BC020402), long non-coding RNA [NR_033219]
A_51_P263220	-0,99	-5,13	0,0141	Taf5	Mus musculus TAF5 RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf5), mRNA [NM_177342]
A_55_P1987805	-1,00	-6,26	0,0063	Rps6ka5	Mus musculus ribosomal protein S6 kinase, polypeptide 5 (Rps6ka5), mRNA [NM_153587]
A_55_P2166602	-1,00	-5,22	0,0132	Zfx	Mus musculus zinc finger protein X-linked (Zfx), transcript variant 1, mRNA [NM_001044386]
A_52_P83913	-1,00	-4,19	0,0305	Ssx2ip	Mus musculus synovial sarcoma, X breakpoint 2 interacting protein (Ssx2ip), transcript variant 1, mRNA [NM_138744]
A_55_P2103324	-1,00	-5,55	0,0102	Mknk2	PREDICTED: Mus musculus MAP kinase-interacting serine/threonine kinase 2 (Mknk2), transcript variant X2, mRNA [XM_006513317]
A_55_P2109263	-1,00	-8,90	0,0014	Ppp1r14b	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14B (Ppp1r14b), mRNA [NM_008889]
A_51_P376711	-1,00	-4,52	0,0234	Gm15498	Mus musculus predicted gene, OTTMUSG00000022819, mRNA (cDNA clone MGC:41618 IMAGE:1265093), complete cds. [BC028660]
A_51_P271984	-1,00	-4,42	0,0252	Tmem45b	Mus musculus transmembrane protein 45b (Tmem45b), mRNA [NM_144936]
A_66_P138584	-1,01	-3,88	0,0396	Mnd1	Mus musculus meiotic nuclear divisions 1 homolog ( <i>S. cerevisiae</i> ) (Mnd1), mRNA [NM_029797]
A_51_P214825	-1,01	-4,60	0,0216	Orc5	Mus musculus origin recognition complex, subunit 5 (Orc5), mRNA [NM_011959]
A_55_P2131138	-1,01	-5,07	0,0148	Gm5878	Mus musculus predicted gene 5878 (Gm5878), mRNA [NM_001034902]
A_51_P216605	-1,01	-5,23	0,0132	Hbp1	Mus musculus high mobility group box transcription factor 1 (Hbp1), transcript variant 2, mRNA [NM_177993]
A_55_P2071028	-1,01	-6,44	0,0055	Gm6195	PREDICTED: Mus musculus predicted pseudogene 6195 (Gm6195), mRNA [XM_885368]
A_55_P2099520	-1,02	-5,18	0,0137	H2afv	Mus musculus H2A histone family, member V (H2afv), mRNA [NM_029938]
A_55_P2106569	-1,02	-4,18	0,0307	Hist1h4d	Mus musculus histone cluster 1, H4d (Hist1h4d), mRNA [NM_175654]
A_66_P112551	-1,02	-7,13	0,0036	Shf	Mus musculus Src homology 2 domain containing F (Shf), mRNA [NM_001013829]
A_52_P137691	-1,02	-7,20	0,0034	Trappc5	Mus musculus trafficking protein particle complex 5 (Trappc5), mRNA [NM_025701]
A_51_P248265	-1,02	-4,18	0,0306	Thoc1	Mus musculus THO complex 1 (Thoc1), mRNA [NM_153552]
A_51_P337089	-1,02	-7,41	0,0031	Gins1	Mus musculus GINS complex subunit 1 (Psf1 homolog) (Gins1), transcript variant 1, mRNA [NM_027014]
A_51_P116007	-1,02	-3,92	0,0381	Hdac2	Mus musculus histone deacetylase 2 (Hdac2), mRNA [NM_008229]
A_52_P101238	-1,02	-5,63	0,0096	B230354K17 Rik	Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030020016 product:hypothetical protein, full insert sequence. [AK083460]
A_52_P406482	-1,02	-3,90	0,0389	Mbtps1	Mus musculus membrane-bound transcription factor peptidase, site 1 (Mbtps1), transcript variant 1, mRNA [NM_019709]
A_55_P2084656	-1,02	-5,72	0,0091	Hist1h2ah	Mus musculus histone cluster 1, H2ah (Hist1h2ah), mRNA [NM_175659]
A_52_P304947	-1,03	-5,89	0,0081	Cenpn	Mus musculus centromere protein N (Cenpn), mRNA [NM_028131]
A_52_P633300	-1,03	-5,56	0,0101	Morc1	Mus musculus microorchidia 1 (Morc1), mRNA [NM_010816]
A_55_P2101696	-1,03	-3,86	0,0402	Gnat2	Mus musculus guanine nucleotide binding protein, alpha transducing 2 (Gnat2), mRNA [NM_008141]
A_55_P2035286	-1,03	-8,36	0,0018	Uhrf1	Mus musculus ubiquitin-like, containing PHD and RING finger domains, 1 (Uhrf1), transcript variant 1, mRNA [NM_010931]
A_66_P132832	-1,03	-4,78	0,0186	Myzap	Mus musculus myocardial zonula adherens protein (Myzap), mRNA [NM_001033208]
A_55_P1983999	-1,03	-8,44	0,0017	Desi1	Mus musculus desumoylating isopeptidase 1 (Desi1), mRNA [NM_134095]
A_55_P2007339	-1,03	-3,92	0,0381	Gm16489	Mus musculus predicted gene, ENSMUSG00000058380, mRNA (cDNA clone IMAGE:4190185), partial cds. [BC026389]

A_52_P70787	-1.03	-4.32	0,0275	Brdt	Mus musculus bromodomain, testis-specific (Brdt), transcript variant 1, mRNA [NM_054054]
A_51_P491800	-1.03	-3.93	0,0378	Taf1b	Mus musculus TATA box binding protein (Tbp)-associated factor, RNA polymerase I, B (Taf1b), transcript variant 1, mRNA [NM_020614]
A_65_P17869	-1.03	-4.20	0,0303	Rpf1	Mus musculus ribosome production factor 1 homolog (S. cerevisiae) (Rpf1), transcript variant 1, mRNA [NM_027332]
A_52_P202737	-1.03	-3.71	0,0465	Olf967	Mus musculus olfactory receptor 967 (Olf967), mRNA [NM_001011826]
A_55_P1973447	-1.03	-6.84	0,0042	Ybx2	Y box protein 2 [Source:MGI Symbol;Acc:MGI:1096372] [ENSMUST00000018698]
A_55_P1988754	-1.03	-3.97	0,0367	Hist4h4	Mus musculus histone cluster 4, H4 (Hist4h4), mRNA [NM_175652]
A_55_P2049717	-1.04	-6.02	0,0074	Agrp	Mus musculus agouti related protein (Agrp), transcript variant 2, mRNA [NM_001271806]
A_55_P2150108	-1.04	-5.72	0,0091	Pgm2l1	Mus musculus phosphoglucosmutase 2-like 1 (Pgm2l1), mRNA [NM_027629]
A_51_P410451	-1.04	-8.01	0,0022	Tube1	Mus musculus epsilon-tubulin 1 (Tube1), mRNA [NM_028006]
A_55_P2117863	-1.04	-5.90	0,0081	Vmn1r222	Mus musculus vomeronasal 1 receptor 222 (Vmn1r222), mRNA [NM_134240]
A_52_P441294	-1.04	-4.60	0,0217	Chl1	Mus musculus cell adhesion molecule with homology to L1CAM (Chl1), mRNA [NM_007697]
A_55_P1972719	-1.04	-4.82	0,0180	Pmm1	Mus musculus phosphomannomutase 1 (Pmm1), transcript variant 1, mRNA [NM_013872]
A_55_P2076048	-1.05	-6.12	0,0069	Nuf2	Mus musculus NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae) (Nuf2), mRNA [NM_023284]
A_55_P2084631	-1.05	-6.24	0,0064	Hist1h2an	Mus musculus histone cluster 1, H2an (Hist1h2an), mRNA [NM_178184]
A_55_P2024639	-1.05	-3.63	0,0498	Eral1	Mus musculus Era (G-protein)-like 1 (E. coli) (Eral1), mRNA [NM_022313]
A_52_P284889	-1.05	-4.12	0,0327	Prkcz	Mus musculus protein kinase C, zeta (Prkcz), transcript variant 1, mRNA [NM_008860]
A_55_P2100209	-1.05	-5.40	0,0114	Kif2c	Mus musculus kinesin family member 2C (Kif2c), transcript variant 2, mRNA [NM_001290662]
A_52_P483301	-1.05	-5.07	0,0147	Mios	Mus musculus missing oocyte, meiosis regulator, homolog (Drosophila) (Mios), mRNA [NM_145374]
A_51_P366227	-1.05	-4.15	0,0315	Zfp799	Mus musculus zinc finger protein 799 (Zfp799), mRNA [NM_177359]
A_51_P123134	-1.05	-6.27	0,0062	Ercc6l	Mus musculus excision repair cross-complementing rodent repair deficiency complementation group 6 like (Ercc6l), mRNA [NM_146235]
A_66_P132446	-1.05	-4.44	0,0249	Usp15	Mus musculus ubiquitin specific peptidase 15 (Usp15), mRNA [NM_027604]
A_51_P329949	-1.05	-5.46	0,0109	Fam13a	Mus musculus family with sequence similarity 13, member A (Fam13a), mRNA [NM_153574]
A_55_P2059382	-1.05	-6.58	0,0050	Arl6	Mus musculus ADP-ribosylation factor-like 6 (Arl6), mRNA [NM_019665]
A_55_P1996319	-1.05	-3.72	0,0461	Wdr38	Mus musculus WD repeat domain 38 (Wdr38), mRNA [NM_029687]
A_55_P2005859	-1.06	-7.71	0,0026	Fn3k	Mus musculus fructosamine 3 kinase (Fn3k), transcript variant 1, mRNA [NM_022014]
A_51_P481398	-1.06	-6.35	0,0058	Kif11	Mus musculus kinesin family member 11 (Kif11), mRNA [NM_010615]
A_51_P170178	-1.06	-3.78	0,0432	B3gnt8	Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8 (B3gnt8), transcript variant 1, mRNA [NM_146184]
A_55_P1975181	-1.06	-5.27	0,0127	Acyp1	Mus musculus acylphosphatase 1, erythrocyte (common) type (Acyp1), mRNA [NM_025421]
A_55_P2032714	-1.06	-5.89	0,0081	Fhit	Mus musculus fragile histidine triad gene (Fhit), mRNA [NM_010210]
A_52_P600304	-1.06	-4.47	0,0242	Slc25a46	Mus musculus solute carrier family 25, member 46 (Slc25a46), mRNA [NM_026165]
A_55_P2249942	-1.06	-4.75	0,0191	6330531101Rik	Mus musculus adult male medulla oblongata cDNA, RIKEN full-length enriched library, clone:6330531101 product:unclassifiable, full insert sequence. [AK018224]
A_55_P2065364	-1.07	-4.02	0,0351	Tdrkh	Mus musculus tudor and KH domain containing protein (Tdrkh), mRNA [NM_028307]
A_55_P2138174	-1.07	-4.13	0,0322	Psd3	Mus musculus pleckstrin and Sec7 domain containing 3 (Psd3), transcript variant 2, mRNA [NM_177698]
A_55_P2018283	-1.07	-8.59	0,0016	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_55_P1998816	-1.07	-5.76	0,0088	Zfand5	Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230385N05 product:unclassifiable, full insert sequence. [AK046445]
A_55_P2021358	-1.08	-3.73	0,0454	Klhl15	Mus musculus kelch-like 15 (Klhl15), transcript variant 2, mRNA [NM_001039060]
A_55_P1972054	-1.08	-4.16	0,0313	Capn10	calpain 10 [Source:MGI Symbol;Acc:MGI:1344392] [ENSMUST00000117814]
A_65_P14710	-1.08	-4.82	0,0180	Zfp850	Mus musculus zinc finger protein 850 (Zfp850), mRNA [NM_001254951]
A_52_P420466	-1.08	-5.42	0,0112	Hist1h2ab	Mus musculus histone cluster 1, H2ab (Hist1h2ab), mRNA [NM_175660]
A_52_P9260	-1.08	-4.78	0,0185	Fam149b	Mus musculus family with sequence similarity 149, member B (Fam149b), transcript variant 1, mRNA [NM_001024512]
A_52_P589664	-1.08	-6.87	0,0041	Zfp846	Mus musculus zinc finger protein 846 (Zfp846), mRNA [NM_172919]
A_55_P2050439	-1.08	-6.60	0,0049	Dlgap5	Mus musculus discs, large (Drosophila) homolog-associated protein 5 (Dlgap5), mRNA [NM_144553]
A_55_P1953894	-1.09	-3.71	0,0465	Mccc2	Mus musculus methylcrotonoyl-Coenzyme A carboxylase 2 (beta) (Mccc2), mRNA [NM_030026]
A_66_P112436	-1.09	-4.51	0,0235	Prkar2b	Mus musculus protein kinase, cAMP dependent regulatory, type II beta (Prkar2b), mRNA [NM_011158]
A_55_P2042783	-1.09	-3.63	0,0499	2310075C17Rik	PREDICTED: Mus musculus RIKEN cDNA 2310075C17 gene (2310075C17Rik), ncRNA [XR_379899]



A_55_P2053718	-1,09	-7,63	0,0027	Pink1	Mus musculus PTEN induced putative kinase 1 (Pink1), mRNA [NM_026880]
A_55_P2255325	-1,10	-7,20	0,0034	Insl5	Mus musculus insulin-like 5 (Insl5), transcript variant 2, mRNA [NM_011831]
A_52_P668285	-1,10	-4,05	0,0344	Plk4	Mus musculus polo-like kinase 4 (Plk4), transcript variant 1, mRNA [NM_011495]
A_55_P1972792	-1,11	-5,75	0,0089	Stil	Mus musculus Scl/Ta11 interrupting locus (Stil), mRNA [NM_009185]
A_55_P2303478	-1,11	-4,97	0,0159	Man2c1os	Mus musculus mannosidase, alpha, class 2C, member 1, opposite strand (Man2c1os), long non-coding RNA [NR_102289]
A_51_P400581	-1,11	-6,53	0,0052	Anp32e	Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member E (Anp32e), transcript variant 1, mRNA [NM_023210]
A_52_P399584	-1,11	-7,87	0,0024	Ckap2l	Mus musculus cytoskeleton associated protein 2-like (Ckap2l), mRNA [NM_181589]
A_66_P112495	-1,11	-5,15	0,0139	Scn4b	Mus musculus sodium channel, type IV, beta (Scn4b), mRNA [NM_001013390]
A_66_P125823	-1,12	-5,72	0,0091	Nupl1	Mus musculus nucleoporin like 1 (Nupl1), mRNA [NM_170591]
A_51_P332355	-1,12	-6,00	0,0075	Kif18a	Mus musculus kinesin family member 18A (Kif18a), mRNA [NM_139303]
A_52_P139650	-1,12	-6,01	0,0074	Ska1	Mus musculus spindle and kinetochore associated complex subunit 1 (Ska1), transcript variant 1, mRNA [NM_025581]
A_55_P2250483	-1,12	-4,73	0,0193	Sycp1-ps1	Mus musculus synaptonemal complex protein 1, pseudogene 1 (Sycp1-ps1), non-coding RNA [NR_024208]
A_55_P2120737	-1,13	-3,99	0,0361	Gm10537	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930598K17 product: hypothetical protein, full insert sequence. [AK133141]
A_52_P456243	-1,13	-4,80	0,0184	2900079G21 Rik	Mus musculus RIKEN cDNA 2900079G21 gene (2900079G21Rik), transcript variant 2, long non-coding RNA [NR_033431]
A_55_P1962284	-1,13	-6,22	0,0064	Klhl24	Mus musculus kelch-like 24 (Klhl24), mRNA [NM_029436]
A_52_P556099	-1,13	-7,64	0,0027	Oip5	Mus musculus Opa interacting protein 5 (Oip5), mRNA [NM_001042653]
A_52_P550932	-1,13	-4,15	0,0315	H1f0	Mus musculus H1 histone family, member 0 (H1f0), mRNA [NM_008197]
A_52_P588881	-1,15	-6,40	0,0057	Iqgap3	Mus musculus IQ motif containing GTPase activating protein 3 (Iqgap3), mRNA [NM_001033484]
A_51_P152612	-1,15	-4,76	0,0189	Nol7	Mus musculus nucleolar protein 7 (Nol7), mRNA [NM_023554]
A_51_P477285	-1,15	-3,71	0,0466	1810014B01 Rik	Mus musculus RIKEN cDNA 1810014B01 gene (1810014B01Rik), non-coding RNA [NR_015572]
A_52_P190647	-1,15	-7,83	0,0024	Mxd3	Mus musculus Max dimerization protein 3 (Mxd3), mRNA [NM_016662]
A_55_P2138333	-1,16	-4,50	0,0236	Mad2l1	Mus musculus MAD2 mitotic arrest deficient-like 1 (Mad2l1), mRNA [NM_019499]
A_51_P519791	-1,16	-6,97	0,0039	Ska3	Mus musculus spindle and kinetochore associated complex subunit 3 (Ska3), mRNA [NM_198605]
A_51_P212741	-1,16	-4,33	0,0271	Scn2b	Mus musculus sodium channel, voltage-gated, type II, beta (Scn2b), mRNA [NM_001014761]
A_52_P257625	-1,16	-5,95	0,0077	Esm1	Mus musculus endothelial cell-specific molecule 1 (Esm1), mRNA [NM_023612]
A_55_P2179314	-1,16	-4,46	0,0244	MacroD2	Mus musculus MACRO domain containing 2 (MacroD2), transcript variant 2, mRNA [NM_028387]
A_51_P230098	-1,17	-8,05	0,0022	Pbk	Mus musculus PDZ binding kinase (Pbk), mRNA [NM_023209]
A_52_P27020	-1,18	-7,26	0,0034	Sgol2	Mus musculus shugoshin-like 2 (S. pombe) (Sgol2), transcript variant 1, mRNA [NM_199007]
A_55_P2007500	-1,18	-10,45	0,0006	Tmem151b	Mus musculus transmembrane protein 151B (Tmem151b), mRNA [NM_001013749]
A_55_P1996484	-1,18	-5,14	0,0140	Nphs2	Mus musculus nephrosis 2, podocin (Nphs2), mRNA [NM_130456]
A_51_P156144	-1,18	-4,84	0,0178	Dbx1	Mus musculus developing brain homeobox 1 (Dbx1), mRNA [NM_001005232]
A_55_P2037439	-1,18	-6,20	0,0065	Depdc1a	Mus musculus DEP domain containing 1a (Depdc1a), transcript variant 1, mRNA [NM_001172092]
A_55_P2077783	-1,18	-6,94	0,0039	Tubb2a-ps2	Mus musculus tubulin, beta 2a, pseudogene 2 (Tubb2a-ps2), non-coding RNA [NR_003964]
A_52_P155124	-1,18	-5,25	0,0129	Zfp229	Mus musculus zinc finger protein 229 (Zfp229), mRNA [NM_001164676]
A_51_P270949	-1,19	-6,97	0,0039	Hist1h1b	Mus musculus histone cluster 1, H1b (Hist1h1b), mRNA [NM_020034]
A_52_P526396	-1,19	-4,85	0,0176	Atl1	Mus musculus atlastin GTPase 1 (Atl1), mRNA [NM_178628]
A_66_P133404	-1,19	-6,71	0,0046	2810417H13 Rik	Mus musculus RIKEN cDNA 2810417H13 gene (2810417H13Rik), mRNA [NM_026515]
A_66_P130541	-1,19	-5,39	0,0114	Traip	Mus musculus TRAF-interacting protein (Traip), mRNA [NM_011634]
A_52_P413623	-1,19	-6,00	0,0075	Usp22	Mus musculus ubiquitin specific peptidase 22 (Usp22), mRNA [NM_001004143]
A_55_P2011325	-1,19	-4,12	0,0325	Gm6598	PREDICTED: Mus musculus predicted gene 6598 (Gm6598), misc_RNA [XR_377118]
A_55_P1958137	-1,19	-6,04	0,0073	ImmP2l	IMP2 inner mitochondrial membrane peptidase-like (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:2135611] [ENSIMUST00000140790]
A_55_P1985950	-1,19	-4,50	0,0237	Xpnpep2	Mus musculus X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound (Xpnpep2), transcript variant 2, mRNA [NM_001289729]
A_55_P2228953	-1,20	-4,04	0,0345	4633402D09 Rik	Mus musculus 0 day neonate skin cDNA, RIKEN full-length enriched library, clone:4633402D09 product: unclassifiable, full insert sequence. [AK014620]
A_66_P130103	-1,20	-4,00	0,0361	Ube2t	Mus musculus ubiquitin-conjugating enzyme E2T (putative) (Ube2t), transcript variant 1, mRNA [NM_026024]
A_52_P368057	-1,20	-4,49	0,0239	Slc7a11	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 11 (Slc7a11), mRNA [NM_011990]

A_55_P2042462	-1,21	-3,74	0,0451	Pthr1	Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110097M02 product:Hypothetical peptidyl-tRNA hydrolase containing protein homolog [Mus musculus], full insert sequence. [AK132137]
A_52_P628117	-1,21	-6,89	0,0041	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 2, mRNA [NM_176839]
A_51_P142767	-1,21	-4,72	0,0194	Glt8d2	Mus musculus glycosyltransferase 8 domain containing 2 (Glt8d2), mRNA [NM_029102]
A_55_P2087066	-1,21	-3,93	0,0378	Slc25a10	Mus musculus solute carrier family 25 (mitochondrial carrier, dicarboxylate transporter), member 10 (Slc25a10), mRNA [NM_013770]
A_52_P834112	-1,21	-3,96	0,0369	3021401N23 Rik	Mus musculus 12 days embryo head cDNA, RIKEN full-length enriched library, clone:3021401N23 product:unclassifiable, full insert sequence. [AK013908]
A_52_P482251	-1,21	-3,77	0,0438	Gjb6	Mus musculus gap junction protein, beta 6 (Gjb6), transcript variant 2, mRNA [NM_001010937]
A_52_P67741	-1,21	-5,79	0,0086	Gm12830	Mus musculus predicted gene 12830 (Gm12830), long non-coding RNA [NR_033617]
A_52_P671625	-1,21	-5,43	0,0111	Trim45	Mus musculus tripartite motif-containing 45 (Trim45), transcript variant 2, mRNA [NM_194343]
A_51_P514256	-1,22	-7,22	0,0034	Tubb2b	Mus musculus tubulin, beta 2B class IIB (Tubb2b), mRNA [NM_023716]
A_52_P424985	-1,22	-7,69	0,0026	Xrra1	Mus musculus X-ray radiation resistance associated 1 (Xrra1), mRNA [NM_001164258]
A_52_P536494	-1,22	-5,17	0,0138	Mycn	Mus musculus v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian) (Mycn), mRNA [NM_008709]
A_52_P246165	-1,22	-3,66	0,0488	Ptprk	Mus musculus protein tyrosine phosphatase, receptor type, K (Ptprk), mRNA [NM_008983]
A_52_P398085	-1,23	-4,07	0,0339	Map3k15	Mus musculus mitogen-activated protein kinase kinase kinase 15 (Map3k15), mRNA [NM_001163085]
A_52_P498208	-1,23	-5,56	0,0101	Hist1h2ak	Mus musculus histone cluster 1, H2ak (Hist1h2ak), mRNA [NM_178183]
A_51_P347240	-1,23	-6,43	0,0056	Lrr1	Mus musculus leucine rich repeat protein 1 (Lrr1), mRNA [NM_001081406]
A_52_P189005	-1,24	-3,67	0,0480	Gk5	Mus musculus glycerol kinase 5 (putative) (Gk5), mRNA [NM_177352]
A_52_P192059	-1,24	-3,77	0,0440	Nup210l	Mus musculus nucleoporin 210-like (Nup210l), mRNA [NM_029937]
A_52_P654618	-1,24	-6,96	0,0039	Znhit3	Mus musculus zinc finger, HIT type 3 (Znhit3), mRNA [NM_001005223]
A_52_P168338	-1,25	-3,76	0,0445	Fundc2	Mus musculus FUN14 domain containing 2 (Fundc2), mRNA [NM_026126]
A_55_P2084890	-1,26	-4,85	0,0177	C2cd2l	Mus musculus C2 calcium-dependent domain containing 2-like (C2cd2l), mRNA [NM_027909]
A_55_P2069974	-1,26	-6,18	0,0066	Kctd1	Mus musculus potassium channel tetramerisation domain containing 1 (Kctd1), transcript variant 1, mRNA [NM_001142731]
A_55_P2122200	-1,26	-5,34	0,0120	Prkar2b	Mus musculus protein kinase, cAMP dependent regulatory, type II beta (Prkar2b), mRNA [NM_011158]
A_55_P2008634	-1,26	-4,82	0,0180	Pcdhb10	Mus musculus protocadherin beta 10 (Pcdhb10), mRNA [NM_053135]
A_55_P2154580	-1,26	-3,67	0,0482	Lcmt2	Mus musculus leucine carboxyl methyltransferase 2 (Lcmt2), mRNA [NM_177846]
A_55_P1964108	-1,26	-7,25	0,0034	B230118H07 Rik	Mus musculus RIKEN cDNA B230118H07 gene (B230118H07Rik), mRNA [NM_026592]
A_66_P136389	-1,27	-4,12	0,0326	Bmpr1b	Mus musculus bone morphogenetic protein receptor, type 1B (Bmpr1b), transcript variant 1, mRNA [NM_007560]
A_66_P130612	-1,27	-4,99	0,0156	2810408A11 Rik	Mus musculus RIKEN cDNA 2810408A11 gene (2810408A11Rik), mRNA [NM_027419]
A_55_P2034864	-1,27	-7,84	0,0024	Tubb2b	Mus musculus tubulin, beta 2B class IIB (Tubb2b), mRNA [NM_023716]
A_51_P228171	-1,27	-6,98	0,0039	Cenpp	Mus musculus centromere protein P (Cenpp), mRNA [NM_025495]
A_51_P320980	-1,27	-6,85	0,0042	Sfxn4	Mus musculus sideroflexin 4 (Sfxn4), mRNA [NM_053198]
A_51_P403393	-1,28	-4,70	0,0197	Tex43	Mus musculus testis expressed 43 (Tex43), mRNA [NM_026099]
A_55_P2044684	-1,28	-4,62	0,0213	Rsph1	Mus musculus radial spoke head 1 homolog (Chlamydomonas) (Rsph1), mRNA [NM_025290]
A_51_P367752	-1,28	-5,07	0,0147	4921536K21 Rik	Mus musculus RIKEN cDNA 4921536K21 gene (4921536K21Rik), mRNA [NM_026150]
A_55_P2004526	-1,29	-4,53	0,0230	Klra8	Mus musculus killer cell lectin-like receptor, subfamily A, member 8 (Klra8), transcript variant 2, mRNA [NM_010650]
A_55_P2314321	-1,29	-4,11	0,0327	BC065403	Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930005F02 product:unclassifiable, full insert sequence. [AK020810]
A_55_P1986647	-1,29	-5,33	0,0120	Podxl2	Mus musculus podocalyxin-like 2 (Podxl2), mRNA [NM_176973]
A_51_P284442	-1,29	-7,01	0,0038	9530077C05 Rik	Mus musculus RIKEN cDNA 9530077C05 gene (9530077C05Rik), mRNA [NM_026739]
A_55_P1989738	-1,30	-3,90	0,0387	4930426L09 Rik	Mus musculus RIKEN cDNA 4930426L09 gene (4930426L09Rik), long non-coding RNA [NR_024323]
A_55_P2023021	-1,30	-7,62	0,0027	Gm6961	PREDICTED: Mus musculus predicted gene 6961 (Gm6961), transcript variant X1, ncRNA [XR_384384]
A_51_P511608	-1,30	-3,78	0,0434	Mtag2	Mus musculus metastasis associated gene 2 (Mtag2), transcript variant 1, long non-coding RNA [NR_027802]
A_55_P2062737	-1,32	-4,09	0,0334	Elovl2	Mus musculus elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 2 (Elovl2), mRNA [NM_019423]
A_55_P2027317	-1,32	-3,91	0,0384	Casc5	cancer susceptibility candidate 5 [Source:MGI Symbol;Acc:MGI:1923714] [ENSMUST00000028799]
A_55_P2149107	-1,32	-6,31	0,0060	BC055324	Mus musculus cDNA sequence BC055324 (BC055324), mRNA [NM_201364]
A_52_P485850	-1,33	-3,80	0,0428	Mgam	Mus musculus maltase-glucoamylase (Mgam), mRNA [NM_001171003]

A_51_P105847	-1,33	-4,54	0,0229	Col6a6	Mus musculus collagen, type VI, alpha 6 (Col6a6), transcript variant 2, mRNA [NM_172927]
A_52_P78333	-1,33	-5,87	0,0082	Lrrc29	Mus musculus leucine rich repeat containing 29 (Lrrc29), mRNA [NM_177449]
A_51_P199008	-1,33	-6,12	0,0069	Zfp108	Mus musculus zinc finger protein 108 (Zfp108), mRNA [NM_018791]
A_51_P378298	-1,34	-4,11	0,0328	Faim3	Mus musculus Fas apoptotic inhibitory molecule 3 (Faim3), mRNA [NM_026976]
A_55_P1991821	-1,34	-4,43	0,0250	Nrg2	Mus musculus neuregulin 2 (Nrg2), mRNA [NM_001167891]
A_52_P305053	-1,35	-5,06	0,0148	B330016D10 Rik	Mus musculus RIKEN cDNA B330016D10 gene (B330016D10Rik), long non-coding RNA [NR_030695]
A_51_P237512	-1,35	-6,42	0,0056	Ska2	Mus musculus spindle and kinetochore associated complex subunit 2 (Ska2), mRNA [NM_025377]
A_52_P510119	-1,35	-6,62	0,0048	Pgm2l1	Mus musculus phosphoglucomutase 2-like 1 (Pgm2l1), mRNA [NM_027629]
A_52_P227391	-1,36	-6,89	0,0041	Kif15	Mus musculus kinesin family member 15 (Kif15), mRNA [NM_010620]
A_51_P220723	-1,36	-8,02	0,0022	B230118H07 Rik	Mus musculus RIKEN cDNA B230118H07 gene (B230118H07Rik), mRNA [NM_026592]
A_52_P518182	-1,36	-5,51	0,0105	Magi3	Mus musculus membrane associated guanylate kinase, WW and PDZ domain containing 3 (Magi3), transcript variant 2, mRNA [NM_133853]
A_55_P2306453	-1,37	-4,24	0,0294	6330571C24 Rik	Mus musculus adult male medulla oblongata cDNA, RIKEN full-length enriched library, clone:6330571C24 product:unclassifiable, full insert sequence, [AK018247]
A_55_P2119633	-1,37	-4,79	0,0185	Gnal	Mus musculus guanine nucleotide binding protein, alpha stimulating, olfactory type (Gnal), transcript variant 2, mRNA [NM_177137]
A_51_P377537	-1,38	-4,22	0,0297	Olfir1066	Mus musculus olfactory receptor 1066 (Olfir1066), mRNA [NM_001011735]
A_55_P1979198	-1,38	-6,37	0,0058	Tbata	Mus musculus thymus, brain and testes associated (Tbata), transcript variant 3, mRNA [NM_023064]
A_55_P2109033	-1,38	-3,67	0,0478	Hmgcs2	Mus musculus 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (Hmgcs2), mRNA [NM_008256]
A_51_P174215	-1,38	-5,09	0,0146	Dhrs2	Mus musculus dehydrogenase/reductase member 2 (Dhrs2), mRNA [NM_027790]
A_55_P2016782	-1,39	-7,31	0,0033	Ick	Mus musculus intestinal cell kinase (Ick), transcript variant 1, mRNA [NM_001163780]
A_55_P1962509	-1,39	-5,91	0,0080	a	Mus musculus nonagouti (a), mRNA [NM_015770]
A_51_P490023	-1,39	-9,12	0,0012	Tubb2a	Mus musculus tubulin, beta 2A class IIA (Tubb2a), mRNA [NM_009450]
A_52_P322421	-1,39	-6,66	0,0048	Mpzl2	Mus musculus myelin protein zero-like 2 (Mpzl2), mRNA [NM_007962]
A_55_P2119025	-1,41	-4,57	0,0222	2610318N02 Rik	Mus musculus RIKEN cDNA 2610318N02 gene (2610318N02Rik), mRNA [NM_183287]
A_52_P444637	-1,41	-5,95	0,0077	Rcbtb2	Mus musculus regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2 (Rcbtb2), transcript variant 2, mRNA [NM_134083]
A_55_P2150901	-1,41	-4,46	0,0243	Foxo4	Mus musculus forkhead box O4 (Foxo4), mRNA [NM_018789]
A_52_P139819	-1,43	-6,76	0,0045	Zc3h6	Mus musculus zinc finger CCCH type containing 6 (Zc3h6), mRNA [NM_178404]
A_52_P215750	-1,44	-3,64	0,0496	Cntnap2	Mus musculus contactin associated protein-like 2 (Cntnap2), transcript variant 1, mRNA [NM_001004357]
A_55_P1986426	-1,44	-4,07	0,0337	G6bos	Mus musculus G6b opposite strand (G6bos), long non-coding RNA [NR_001462]
A_52_P151116	-1,45	-5,04	0,0150	Kcnab3	Mus musculus potassium voltage-gated channel, shaker-related subfamily, beta member 3 (Kcnab3), mRNA [NM_010599]
A_51_P448447	-1,45	-7,16	0,0035	Nupl2	Mus musculus nucleoporin like 2 (Nupl2), mRNA [NM_153092]
A_52_P41294	-1,45	-4,17	0,0310	Tmem209	Mus musculus transmembrane protein 209 (Tmem209), mRNA [NM_178625]
A_52_P675617	-1,45	-6,30	0,0061	Agbl3	Mus musculus ATP/GTP binding protein-like 3 (Agbl3), transcript variant 4, mRNA [NM_001289658]
A_55_P2162935	-1,45	-5,53	0,0103	Ntn1	Mus musculus netrin 1 (Ntn1), mRNA [NM_008744]
A_51_P344249	-1,45	-4,90	0,0171	Apbb1	Mus musculus amyloid beta (A4) precursor protein-binding, family B, member 1 (Apbb1), transcript variant 2, mRNA [NM_009685]
A_55_P2136426	-1,46	-3,87	0,0397	Prss57	Mus musculus protease, serine 57 (Prss57), mRNA [NM_001042710]
A_55_P2163428	-1,46	-7,95	0,0023	Foxm1	Mus musculus forkhead box M1 (Foxm1), mRNA [NM_008021]
A_55_P2082299	-1,48	-5,09	0,0146	AA388235	Mus musculus expressed sequence AA388235 (AA388235), long non-coding RNA [NR_033305]
A_55_P2421387	-1,48	-5,31	0,0122	AW050000	UI-M-BH1-ant-g-09-0-UI.s1 NIH_BMAP_M_S2 Mus musculus cDNA clone UI-M-BH1-ant-g-09-0-UI 3', [AW050000]
A_55_P2009640	-1,50	-5,20	0,0135	1700048020 Rik	Mus musculus RIKEN cDNA 1700048020 gene (1700048020Rik), long non-coding RNA [NR_033553]
A_55_P2009767	-1,50	-4,00	0,0359	Mapkapk3	mitogen-activated protein kinase-activated protein kinase 3 [Source:MGI Symbol;Acc:MGI:2143163] [ENSMUST00000141596]
A_55_P2103963	-1,50	-4,22	0,0298	Bhmt	Mus musculus betaine-homocysteine methyltransferase (Bhmt), mRNA [NM_016668]
A_55_P2001415	-1,51	-4,21	0,0301	Olfir297	Mus musculus olfactory receptor 297 (Olfir297), mRNA [NM_146618]
A_55_P2054882	-1,52	-10,01	0,0008	Trappc1	trafficking protein particle complex 1 [Source:MGI Symbol;Acc:MGI:1098727] [ENSMUST0000060956]
A_65_P13545	-1,52	-4,59	0,0219	Ints10	integrator complex subunit 10 [Source:MGI Symbol;Acc:MGI:1918135] [ENSMUST0000034328]
A_52_P513345	-1,52	-3,95	0,0371	Zswim5	Mus musculus zinc finger SWIM-type containing 5 (Zswim5), mRNA [NM_001029912]
A_51_P192203	-1,54	-3,89	0,0392	Olfir591	Mus musculus olfactory receptor 591 (Olfir591), mRNA [NM_001011847]

A_55_P2178592	-1,55	-3,89	0,0392	Rbbp9	Mus musculus retinoblastoma binding protein 9 (Rbbp9), mRNA [NM_015754]
A_52_P681016	-1,55	-5,42	0,0112	Gm10759	Mus musculus hypothetical protein (Arzc) mRNA, complete cds. [AY344585]
A_55_P2018904	-1,56	-7,16	0,0035	Zbtbd6	Mus musculus kelch repeat and BTB (POZ) domain containing 6 (Zbtbd6), mRNA [NM_001034882]
A_51_P305217	-1,57	-3,85	0,0407	Hoxd1	Mus musculus homeobox D1 (Hoxd1), mRNA [NM_010467]
A_55_P2058297	-1,58	-3,98	0,0363	Sgip1	Mus musculus SH3-domain GRB2-like (endophilin) interacting protein 1 (Sgip1), transcript variant 1, mRNA [NM_001285852]
A_55_P1961576	-1,58	-3,97	0,0367	Ypel1	Mus musculus yippee-like 1 (Drosophila) (Ypel1), transcript variant 1, mRNA [NM_001291047]
A_52_P62011	-1,59	-6,38	0,0057	Gm16039	Mus musculus predicted gene 16039 (Gm16039), long non-coding RNA [NR_033518]
A_55_P1986686	-1,60	-3,78	0,0434	Olfir919	Mus musculus olfactory receptor 919 (Olfir919), mRNA [NM_146440]
A_55_P1980631	-1,61	-8,90	0,0014	Aurkb	Mus musculus aurora kinase B (Aurkb), mRNA [NM_011496]
A_52_P517063	-1,61	-5,65	0,0095	Immp2l	Mus musculus IMP2 inner mitochondrial membrane peptidase-like (S. cerevisiae) (Immp2l), mRNA [NM_053122]
A_55_P2116315	-1,64	-5,27	0,0126	Trim45	Mus musculus tripartite motif-containing 45 (Trim45), transcript variant 1, mRNA [NM_001165953]
A_51_P257712	-1,64	-4,28	0,0282	Olfir104-ps	Synthetic construct Mus musculus clone IMAGE:100068124, MGC:195741 olfactory receptor 104 (Olfir104) mRNA, encodes complete protein. [BC167224]
A_52_P253044	-1,70	-9,19	0,0011	Syt13	Mus musculus synaptotagmin XIII (Syt13), mRNA [NM_030725]
A_51_P356931	-1,71	-5,72	0,0091	Orc1	Mus musculus origin recognition complex, subunit 1 (Orc1), mRNA [NM_011015]
A_52_P16931	-1,72	-5,61	0,0098	Suv39h2	Mus musculus suppressor of variegation 3-9 homolog 2 (Drosophila) (Suv39h2), transcript variant 1, mRNA [NM_022724]
A_51_P241645	-1,72	-4,38	0,0261	Tmem194	Mus musculus transmembrane protein 194 (Tmem194), transcript variant 2, mRNA [NM_173732]
A_55_P1974073	-1,73	-4,53	0,0231	Fsip2	fibrous sheath-interacting protein 2 [Source:MGI Symbol;Acc:MGI:2664111] [ENSMUST00000136202]
A_55_P2165164	-1,73	-4,31	0,0277	Trav3-4	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730076H11 product:similar to T-cell receptor alpha chain precursor V-J region (TA72) (fragment) [Mus musculus], full insert sequence. [AK043253]
A_55_P2099320	-1,74	-5,01	0,0154	Wdr78	Mus musculus WD repeat domain 78 (Wdr78), mRNA [NM_146254]
A_55_P1979092	-1,75	-5,87	0,0082	Naip1	Mus musculus NLR family, apoptosis inhibitory protein 1 (Naip1), mRNA [NM_008670]
A_55_P2017561	-1,75	-3,99	0,0361	3110007F17 Rik	Mus musculus RIKEN cDNA 3110007F17 gene (3110007F17Rik), mRNA [NM_028426]
A_55_P1969575	-1,76	-4,19	0,0306	Gm10701	Mus musculus 16 days neonate male medulla oblongata cDNA, RIKEN full-length enriched library, clone:G630005L12 product:hypothetical protein, full insert sequence. [AK144276]
A_51_P427624	-1,77	-5,31	0,0122	Pgc	Mus musculus progastricsin (pepsinogen C) (Pgc), mRNA [NM_025973]
A_55_P2058591	-1,78	-4,49	0,0237	Mylpf	PREDICTED: Mus musculus myosin light chain, phosphorylatable, fast skeletal muscle (Mylpf), transcript variant X1, mRNA [XM_006507421]
A_55_P1956284	-1,82	-4,11	0,0328	Zfp60	zinc finger protein 60 [Source:MGI Symbol;Acc:MGI:99207] [ENSMUST00000108336]
A_55_P2155236	-1,83	-4,56	0,0224	Ksr2	Mus musculus kinase suppressor of ras 2 (Ksr2), mRNA [NM_001114545]
A_55_P2023839	-1,83	-3,73	0,0457	Gm14151	Mus musculus predicted gene 14151 (Gm14151), mRNA [NM_001097977]
A_55_P2185905	-1,84	-4,00	0,0359	Nrg4	Mus musculus neuregulin 4 (Nrg4), mRNA [NM_032002]
A_55_P2089422	-1,84	-4,85	0,0176	Olig3	Mus musculus oligodendrocyte transcription factor 3 (Olig3), mRNA [NM_053008]
A_55_P2066505	-1,84	-4,30	0,0280	Mpo	PREDICTED: Mus musculus myeloperoxidase (Mpo), transcript variant X2, mRNA [XM_006536438]
A_66_P109183	-1,84	-3,76	0,0445	Apold1	Mus musculus apolipoprotein L domain containing 1 (Apold1), mRNA [NM_001109914]
A_55_P2074246	-1,88	-5,50	0,0105	Zfp184	Mus musculus zinc finger protein 184 (Krueppel-like) (Zfp184), mRNA [NM_183014]
A_51_P504354	-1,89	-7,76	0,0025	Nrarp	Mus musculus Notch-regulated ankyrin repeat protein (Nrarp), mRNA [NM_025980]
A_51_P396163	-1,90	-4,78	0,0186	Mdm1	Mouse nuclear protein (mdm-1a) mRNA, complete cds. [M20824]
A_55_P2150113	-1,92	-3,96	0,0368	Gm10641	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130017F12 product:hypothetical protein, full insert sequence. [AK137815]
A_55_P2023632	-1,92	-3,83	0,0411	Vmn2r77	Mus musculus vomeronasal 2, receptor 77 (Vmn2r77), mRNA [NM_001105188]
A_55_P2001608	-1,93	-6,95	0,0039	Klhl4	Mus musculus kelch-like 4 (Klhl4), transcript variant 1, mRNA [NM_172781]
A_66_P113346	-1,96	-3,96	0,0369	Gm5103	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630062H14 product:unclassifiable, full insert sequence. [AK042136]
A_55_P1997595	-1,96	-6,33	0,0059	Slc6a19	Mus musculus solute carrier family 6 (neurotransmitter transporter), member 19 (Slc6a19), mRNA [NM_028878]
A_52_P11402	-2,04	-5,49	0,0106	Lrrc24	Mus musculus leucine rich repeat containing 24 (Lrrc24), mRNA [NM_198119]
A_55_P2068891	-2,04	-8,12	0,0021	Pear1	Mus musculus platelet endothelial aggregation receptor 1 (Pear1), transcript variant 5, mRNA [NM_001289600]
A_55_P2241663	-2,12	-5,34	0,0120	5830432E09 Rik	Mus musculus B16 F10Y cells cDNA, RIKEN full-length enriched library, clone:G370003E19 product:unclassifiable, full insert sequence. [AK148045]
A_66_P114176	-2,12	-3,80	0,0427	Hist2h2ab	Mus musculus histone cluster 2, H2ab (Hist2h2ab), mRNA [NM_178213]
A_51_P445912	-2,14	-7,17	0,0035	2310047K21 Rik	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310047K21 product:unclassifiable, full

					insert sequence. [AK009882]
A_55_P2116868	-2,15	-6,28	0,0062	A130010J15 Rik	Mus musculus RIKEN cDNA A130010J15 gene (A130010J15Rik), transcript variant 1, mRNA [NM_181048]
A_52_P599514	-2,22	-7,09	0,0036	Klrb1c	Mus musculus killer cell lectin-like receptor subfamily B member 1C (Klrb1c), transcript variant 2, mRNA [NM_008527]
A_55_P2126790	-2,23	-5,78	0,0087	1500009L16 Rik	Mus musculus RIKEN cDNA 1500009L16 gene (1500009L16Rik), mRNA [NM_001145198]
A_55_P2119493	-2,24	-6,77	0,0044	Gstcd	Mus musculus glutathione S-transferase, C-terminal domain containing (Gstcd), mRNA [NM_026231]
A_55_P2029101	-2,24	-5,42	0,0112	Lcorl	Mus musculus ligand dependent nuclear receptor corepressor-like (Lcorl), transcript variant 3, mRNA [NM_178142]
A_55_P1956832	-2,26	-4,15	0,0315	Pip5k1b	Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type 1 beta (Pip5k1b), mRNA [NM_008846]
A_55_P2205448	-2,29	-4,53	0,0232	C330026H20 Rik	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130020N20 product:unclassifiable, full insert sequence. [AK037477]
A_52_P58949	-2,44	-7,90	0,0024	Calcl	Mus musculus calcitonin receptor-like (Calcl), mRNA [NM_018782]

ID	logFC	t	P-valor ajustado	Gen	Descripción
A_52_P670026	4,22	17,59	0,0001	Rsad2	Mus musculus radical S-adenosyl methionine domain containing 2 (Rsad2), mRNA [NM_021384]
A_51_P303160	4,19	8,05	0,0021	Arg1	Mus musculus arginase, liver (Arg1), mRNA [NM_007482]
A_51_P322640	3,91	11,96	0,0002	Ccl24	Mus musculus chemokine (C-C motif) ligand 24 (Ccl24), mRNA [NM_019577]
A_55_P2016462	3,66	12,49	0,0002	Cxcl10	Mus musculus chemokine (C-X-C motif) ligand 10 (Cxcl10), mRNA [NM_021274]
A_55_P2016459	3,58	5,34	0,0105	Cxcl10	Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830106P05 product:unclassifiable, full insert sequence. [AK156907]
A_51_P184484	3,35	9,58	0,0009	Mmp13	Mus musculus matrix metalloproteinase 13 (Mmp13), mRNA [NM_008607]
A_66_P117933	3,32	5,63	0,0088	I830012016 Rik	Mus musculus RIKEN cDNA I830012016 gene (I830012016Rik), mRNA [NM_001005858]
A_51_P436652	3,18	11,10	0,0004	Ccl7	Mus musculus chemokine (C-C motif) ligand 7 (Ccl7), mRNA [NM_013654]
A_55_P1972872	3,13	11,21	0,0003	I830012016 Rik	Mus musculus RIKEN cDNA I830012016 gene (I830012016Rik), mRNA [NM_001005858]
A_51_P183812	3,03	12,24	0,0002	Slfn4	Mus musculus schlafen 4 (Slfn4), mRNA [NM_011410]
A_52_P186937	3,02	16,21	0,0001	Cmpk2	Mus musculus cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial (Cmpk2), mRNA [NM_020557]
A_55_P2103698	2,97	16,24	0,0001	Isg15	Mus musculus ISG15 ubiquitin-like modifier (Isg15), mRNA [NM_015783]
A_51_P514085	2,95	17,99	0,0001	Mx2	Mus musculus myxovirus (influenza virus) resistance 2 (Mx2), transcript variant 1, mRNA [NM_013606]
A_55_P1984556	2,95	12,07	0,0002	Ccl12	Mus musculus chemokine (C-C motif) ligand 12 (Ccl12), mRNA [NM_011331]
A_55_P2114953	2,92	17,13	0,0001	Usp18	Mus musculus ubiquitin specific peptidase 18 (Usp18), mRNA [NM_011909]
A_51_P327751	2,90	16,14	0,0001	Ifit1	Mus musculus interferon-induced protein with tetratricopeptide repeats 1 (Ifit1), mRNA [NM_008331]
A_51_P488739	2,83	5,38	0,0102	Hcar2	Mus musculus hydroxycarboxylic acid receptor 2 (Hcar2), mRNA [NM_030701]
A_66_P128537	2,82	14,04	0,0001	Isg15	Mus musculus ISG15 ubiquitin-like modifier (Isg15), mRNA [NM_015783]
A_51_P123625	2,75	16,01	0,0001	Irg1	Mus musculus immunoresponsive gene 1 (Irg1), mRNA [NM_008392]
A_51_P487690	2,73	11,41	0,0003	Ifi44	Mus musculus interferon-induced protein 44 (Ifi44), mRNA [NM_133871]
A_51_P149714	2,68	8,81	0,0013	Ms4a6d	Mus musculus membrane-spanning 4-domains, subfamily A, member 6D (Ms4a6d), mRNA [NM_026835]
A_55_P2086433	2,66	15,93	0,0001	Oasl1	Mus musculus 2'-5' oligoadenylate synthetase-like 1 (Oasl1), mRNA [NM_145209]
A_55_P2066578	2,64	11,91	0,0002	Ifi204	PREDICTED: Mus musculus interferon activated gene 204 (Ifi204), transcript variant X1, mRNA [XM_006497295]
A_55_P2021014	2,61	5,79	0,0080	Tigd4	Mus musculus tigger transposable element derived 4 (Tigd4), mRNA [NM_207278]
A_55_P1998943	2,60	15,87	0,0001	Oas1a	Mus musculus 2'-5' oligoadenylate synthetase 1A (Oas1a), mRNA [NM_145211]
A_55_P1992368	2,57	8,50	0,0016	AY358078	Mus musculus cDNA sequence AY358078 (AY358078), mRNA [NM_194347]
A_52_P700056	2,57	15,75	0,0001	Wfdc17	Mus musculus WAP four-disulfide core domain 17 (Wfdc17), mRNA [NM_001081957]
A_51_P304170	2,55	21,82	0,0001	Rtp4	Mus musculus receptor transporter protein 4 (Rtp4), mRNA [NM_023386]
A_51_P383032	2,54	15,45	0,0001	Clec4d	Mus musculus C-type lectin domain family 4, member d (Clec4d), transcript variant 1, mRNA [NM_010819]
A_55_P2019719	2,53	12,61	0,0002	Oas2	Mus musculus 2'-5' oligoadenylate synthetase 2 (Oas2), mRNA [NM_145227]
A_51_P159503	2,52	15,90	0,0001	Rnf213	ring finger protein 213 [Source:MGI Symbol;Acc:MGI:1289196] [ENSMUST00000093902]
A_51_P269053	2,51	7,71	0,0025	Hoxd3os1	Mus musculus homeobox D3, opposite strand 1 (Hoxd3os1), long non-coding RNA [NR_027899]
A_51_P509573	2,50	14,00	0,0001	Ccl4	Mus musculus chemokine (C-C motif) ligand 4 (Ccl4), mRNA [NM_013652]
A_55_P1953387	2,48	13,34	0,0001	Fabp5	Mus musculus fatty acid binding protein 5, epidermal (Fabp5), transcript variant 2, mRNA [NM_00127097]
A_55_P2118441	2,47	9,02	0,0011	Mx1	Mus musculus myxovirus (influenza virus) resistance 1 (Mx1), mRNA [NM_010846]



A_55_P2015687	2,42	6,62	0,0050	Phf11d	Mus musculus PHD finger protein 11D (Phf11d), mRNA [NM_199015]
A_55_P2170350	2,40	4,45	0,0200	Klra22	Mus musculus killer cell lectin-like receptor subfamily A, member 22 (Klra22), mRNA [NM_053152]
A_51_P154842	2,39	14,18	0,0001	Oas1f	Mus musculus 2'-5' oligoadenylate synthetase 1F (Oas1f), mRNA [NM_145153]
A_51_P387123	2,39	13,45	0,0001	Oas12	Mus musculus 2'-5' oligoadenylate synthetase-like 2 (Oas12), mRNA [NM_011854]
A_51_P498720	2,38	6,57	0,0052	Cacna2d1	Mus musculus calcium channel, voltage-dependent, alpha2/delta subunit 1 (Cacna2d1), transcript variant e, mRNA [NM_009784]
A_55_P1973874	2,38	5,98	0,0072	1700049E17 Rik1	PREDICTED: Mus musculus RIKEN cDNA 1700049E17 gene, gene 1 (1700049E17Rik1), transcript variant X2, misc_RNA [XR_383370]
A_51_P286737	2,35	9,91	0,0007	Ccl2	Mus musculus chemokine (C-C motif) ligand 2 (Ccl2), mRNA [NM_011333]
A_52_P220879	2,33	11,00	0,0004	Tgm2	Mus musculus transglutaminase 2, C polypeptide (Tgm2), mRNA [NM_009373]
A_51_P359570	2,33	13,85	0,0001	Ifit3	Mus musculus interferon-induced protein with tetratricopeptide repeats 3 (Ifit3), mRNA [NM_010501]
A_55_P2017982	2,32	3,97	0,0305	Pde8b	Mus musculus phosphodiesterase 8B (Pde8b), transcript variant 1, mRNA [NM_001170669]
A_55_P2008740	2,31	5,73	0,0083	Fcgr1	Mus musculus Fc receptor, IgG, high affinity I (Fcgr1), mRNA [NM_010186]
A_51_P500661	2,31	4,12	0,0265	Rnf182	Mus musculus ring finger protein 182 (Rnf182), mRNA [NM_183204]
A_51_P291417	2,31	6,92	0,0042	Thbd	Mus musculus thrombomodulin (Thbd), mRNA [NM_009378]
A_55_P2017636	2,29	6,15	0,0065	Thbs1	Mus musculus thrombospondin 1 (Thbs1), mRNA [NM_011580]
A_66_P101942	2,29	14,54	0,0001	Gm9706	PREDICTED: Mus musculus predicted gene 9706 (Gm9706), misc_RNA [XR_168557]
A_51_P262515	2,28	9,75	0,0008	Phf11a	Mus musculus PHD finger protein 11A (Phf11a), mRNA [NM_172603]
A_52_P380369	2,27	11,71	0,0003	Phf11d	Mus musculus DNA segment, Chr 14, ERATO Doi 668, expressed, mRNA (cDNA clone MGC:29273 IMAGE:5067268), complete cds. [BC030186]
A_55_P1977473	2,27	8,70	0,0014	Dab2	Mus musculus disabled 2, mitogen-responsive phosphoprotein (Dab2), transcript variant 1, mRNA [NM_023118]
A_66_P112573	2,26	17,61	0,0001	Isg20	Mus musculus interferon-stimulated protein (Isg20), transcript variant 4, mRNA [NM_001291220]
A_55_P2108255	2,26	10,86	0,0004	Lgmn	Mus musculus legumain (Lgmn), mRNA [NM_011175]
A_55_P1998942	2,25	16,84	0,0001	Oas1a	Mus musculus 2'-5' oligoadenylate synthetase 1A (Oas1a), mRNA [NM_145211]
A_55_P2282421	2,25	5,35	0,0103	4933432103 Rik	Mus musculus RIKEN cDNA 4933432103 gene (4933432103Rik), long non-coding RNA [NR_045657]
A_55_P2141943	2,24	5,00	0,0132	Ube2l6	ubiquitin-conjugating enzyme E2L 6 [Source:MGI Symbol;Acc:MGI:1914500] [ENSMUST00000102642]
A_55_P2003297	2,24	7,15	0,0036	Magea1	Mus musculus melanoma antigen, family A, 1 (Magea1), mRNA [NM_020015]
A_51_P421876	2,23	11,22	0,0003	Irf7	Mus musculus interferon regulatory factor 7 (Irf7), transcript variant 1, mRNA [NM_016850]
A_55_P2173892	2,23	14,40	0,0001	Isg20	Mus musculus interferon-stimulated protein (Isg20), transcript variant 4, mRNA [NM_001291220]
A_55_P2132921	2,23	4,76	0,0157	Gm13247	Mus musculus predicted gene 13247 (Gm13247), transcript variant 1, mRNA [NM_001243138]
A_55_P1958165	2,23	5,11	0,0122	Ms4a7	Mus musculus membrane-spanning 4-domains, subfamily A, member 7 (Ms4a7), transcript variant 3, mRNA [NM_001276398]
A_65_P05152	2,22	4,26	0,0234	Flrt2	Mus musculus fibronectin leucine rich transmembrane protein 2 (Flrt2), mRNA [NM_201518]
A_66_P130887	2,22	6,49	0,0054	Pcdh18	Mus musculus protocadherin 18 (Pcdh18), mRNA [NM_130448]
A_55_P1968168	2,22	5,61	0,0089	Vmn1r132	Mus musculus vomeronasal 1 receptor 132 (Vmn1r132), mRNA [NM_001122682]
A_55_P2015887	2,22	3,55	0,0454	Wwox	WW domain-containing oxidoreductase [Source:MGI Symbol;Acc:MGI:1931237] [ENSMUST00000109107]
A_55_P2005783	2,21	14,00	0,0001	Ifih1	Mus musculus interferon induced with helicase C domain 1 (Ifih1), transcript variant 1, mRNA [NM_027835]
A_55_P2092993	2,20	3,86	0,0338	D330045A20 Rik	Mus musculus RIKEN cDNA D330045A20 gene (D330045A20Rik), mRNA [NM_175326]
A_55_P1975560	2,20	11,06	0,0004	Ifi204	Mus musculus interferon activated gene 204 (Ifi204), mRNA [NM_008329]
A_55_P1966833	2,19	16,96	0,0001	Xaf1	Mus musculus XIAP associated factor 1 (Xaf1), transcript variant 1, mRNA [NM_001037713]
A_51_P185660	2,19	11,75	0,0003	Ccl9	Mus musculus chemokine (C-C motif) ligand 9 (Ccl9), mRNA [NM_011338]
A_52_P586004	2,17	11,87	0,0002	Hk3	Mus musculus hexokinase 3 (Hk3), transcript variant 1, mRNA [NM_001033245]
A_55_P1998843	2,17	7,76	0,0024	Ifi203	Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]
A_55_P2071661	2,14	5,63	0,0088	LOC102638989	PREDICTED: Mus musculus uncharacterized LOC102638989 (LOC102638989), ncRNA [XR_388149]
A_51_P130095	2,14	8,43	0,0016	Fcgr2b	Mus musculus Fc receptor, IgG, low affinity IIb (Fcgr2b), transcript variant 1, mRNA [NM_001077189]
A_55_P2053309	2,13	4,02	0,0290	Rgs21	Mus musculus regulator of G-protein signalling 21 (Rgs21), transcript variant 1, mRNA [NM_001290269]
A_51_P115005	2,13	4,30	0,0229	Edn1	Mus musculus endothelin 1 (Edn1), mRNA [NM_010104]
A_55_P1962918	2,12	9,06	0,0011	Mnda	Mus musculus myeloid cell nuclear differentiation antigen (Mnda), mRNA [NM_001033450]
A_55_P1999213	2,12	11,86	0,0002	Tdrd7	Mus musculus tudor domain containing 7 (Tdrd7), transcript variant 1, mRNA [NM_001290475]
A_51_P167292	2,10	6,22	0,0062	Chil3	Mus musculus chitinase-like 3 (Chil3), mRNA [NM_009892]

A_51_P375146	2,10	4,13	0,0261	Cd36	Mus musculus CD36 antigen (Cd36), transcript variant 2, mRNA [NM_007643]
A_51_P189361	2,09	13,90	0,0001	Osgin1	Mus musculus oxidative stress induced growth inhibitor 1 (Osgin1), mRNA [NM_027950]
A_55_P2034110	2,08	11,74	0,0003	Tgm2	Mus musculus transglutaminase 2, C polypeptide (Tgm2), mRNA [NM_009373]
A_55_P2340735	2,07	5,40	0,0100	A230038B01 Rik	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230038B01 product:unclassifiable, full insert sequence. [AK079537]
A_51_P327983	2,07	6,70	0,0048	4833427G06 Rik	Mus musculus RIKEN cDNA 4833427G06 gene (4833427G06Rik), mRNA [NM_177702]
A_52_P223809	2,06	13,58	0,0001	Dhx58	Mus musculus DEXH (Asp-Glu-X-His) box polypeptide 58 (Dhx58), mRNA [NM_030150]
A_55_P2173210	2,05	11,45	0,0003	Gm16340	PREDICTED: Mus musculus predicted gene 16340 (Gm16340), mRNA [XM_006497081]
A_52_P127130	2,04	4,25	0,0238	Msr1	Mus musculus macrophage scavenger receptor 1 (Msr1), transcript variant 1, mRNA [NM_031195]
A_51_P269166	2,04	4,70	0,0164	Mmp19	Mus musculus matrix metalloproteinase 19 (Mmp19), transcript variant 1, mRNA [NM_021412]
A_51_P220278	2,02	4,59	0,0179	Ppp2r2b	Mus musculus protein phosphatase 2, regulatory subunit B, beta (Ppp2r2b), transcript variant 2, mRNA [NM_028392]
A_55_P2164085	2,02	3,48	0,0483	Raet1a	Mus musculus retinoic acid early transcript 1, alpha (Raet1a), mRNA [NM_009016]
A_55_P2038262	2,01	9,78	0,0008	Phf11b	Mus musculus PHD finger protein 11B (Phf11b), mRNA [NM_001164327]
A_55_P2049867	2,01	9,41	0,0009	Ccr12	Mus musculus chemokine (C-C motif) receptor-like 2 (Ccr12), mRNA [NM_017466]
A_52_P624434	2,01	5,28	0,0107	Clec1a	Mus musculus C-type lectin domain family 1, member a (Clec1a), mRNA [NM_175526]
A_55_P2139181	2,01	9,53	0,0009	Cald1	Mus musculus caldesmon 1 (Cald1), mRNA [NM_145575]
A_51_P174961	2,01	7,93	0,0022	F10	Mus musculus coagulation factor X (F10), transcript variant 2, mRNA [NM_007972]
A_52_P494930	2,01	13,46	0,0001	Fnip2	Mus musculus folliculin interacting protein 2 (Fnip2), mRNA [NM_001162999]
A_51_P214747	2,00	9,39	0,0009	Parp12	Mus musculus poly (ADP-ribose) polymerase family, member 12 (Parp12), mRNA [NM_172893]
A_55_P2010298	1,99	4,81	0,0151	Serpina1d	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 1D (Serpina1d), mRNA [NM_009246]
A_51_P275454	1,97	14,67	0,0001	Trim30a	Mus musculus tripartite motif-containing 30A (Trim30a), mRNA [NM_009099]
A_55_P2081105	1,96	6,38	0,0057	Al607873	Mus musculus expressed sequence Al607873 (Al607873), mRNA [NM_001204910]
A_66_P124179	1,96	5,43	0,0099	Atp6v0d2	Mus musculus ATPase, H+ transporting, lysosomal V0 subunit D2 (Atp6v0d2), mRNA [NM_175406]
A_55_P1977464	1,95	5,38	0,0102	Dab2ip	Mus musculus disabled 2 interacting protein (Dab2ip), transcript variant 4, mRNA [NM_001290637]
A_55_P2171116	1,95	13,65	0,0001	Lgals3	Mus musculus lectin, galactose binding, soluble 3 (Lgals3), transcript variant 1, mRNA [NM_001145953]
A_55_P2172584	1,95	4,63	0,0173	Mageb3	Mus musculus melanoma antigen, family B, 3 (Mageb3), mRNA [NM_008545]
A_55_P2143765	1,95	5,25	0,0109	Ugt1a6b	Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6B (Ugt1a6b), mRNA [NM_201410]
A_55_P2052385	1,95	6,32	0,0059	Gbp6	Mus musculus guanylate binding protein 6 (Gbp6), mRNA [NM_194336]
A_55_P2115225	1,94	12,22	0,0002	Fap	Mus musculus fibroblast activation protein (Fap), mRNA [NM_007986]
A_52_P632423	1,94	3,87	0,0334	Palm2	Mus musculus paralemmin 2 (Palm2), mRNA [NM_172868]
A_51_P212754	1,93	6,81	0,0045	Tgfb1	Mus musculus transforming growth factor, beta induced (Tgfb1), mRNA [NM_009369]
A_55_P1966838	1,92	8,14	0,0019	Xaf1	Mus musculus XIAP associated factor 1 (Xaf1), transcript variant 1, mRNA [NM_001037713]
A_51_P161021	1,92	9,13	0,0010	Ifit2	Mus musculus interferon-induced protein with tetratricopeptide repeats 2 (Ifit2), mRNA [NM_008332]
A_55_P2169669	1,92	8,20	0,0019	Csf1	Mus musculus colony stimulating factor 1 (macrophage) (Csf1), transcript variant 3, mRNA [NM_001113530]
A_55_P2123484	1,91	3,48	0,0485	Gm11627	Mus musculus predicted gene 11627 (Gm11627), long non-coding RNA [NR_040286]
A_55_P2133795	1,91	4,65	0,0170	Nos1	Mus musculus nitric oxide synthase 1, neuronal (Nos1), mRNA [NM_008712]
A_55_P2369474	1,90	4,69	0,0165	Nr1h4	Mus musculus nuclear receptor subfamily 1, group H, member 4 (Nr1h4), transcript variant 2, mRNA [NM_001163504]
A_51_P240986	1,90	4,24	0,0239	Plekhhg6	Mus musculus pleckstrin homology domain containing, family G (with RhoGef domain) member 6 (Plekhhg6), mRNA [NM_198604]
A_55_P2146728	1,88	4,07	0,0276	Zfp354a	Mus musculus zinc finger protein 354A (Zfp354a), mRNA [NM_009329]
A_55_P2075200	1,88	10,67	0,0004	Tor3a	Mus musculus torsin family 3, member A (Tor3a), mRNA [NM_023141]
A_55_P1966731	1,88	12,29	0,0002	Ifi203	Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]
A_51_P447287	1,87	3,59	0,0436	Fkbp14	Mus musculus FK506 binding protein 14 (Fkbp14), mRNA [NM_153573]
A_55_P2072586	1,87	4,32	0,0223	Socs2	suppressor of cytokine signaling 2 [Source:MGI Symbol;Acc:MGI:1201787] [ENSMUST00000139210]
A_51_P316553	1,87	5,97	0,0072	Kdr	Mus musculus kinase insert domain protein receptor (Kdr), mRNA [NM_010612]
A_55_P2177073	1,87	5,29	0,0106	LOC102641688	PREDICTED: Mus musculus interferon-activable protein 204-like (LOC102641688), mRNA [XM_006544649]
A_55_P2067362	1,87	5,22	0,0111	Dpep2	dipeptidase 2 [Source:MGI Symbol;Acc:MGI:2442042] [ENSMUST00000034373]
A_55_P2031989	1,86	8,14	0,0019	Rin2	Mus musculus Ras and Rab interactor 2 (Rin2), mRNA [NM_028724]
A_55_P2098423	1,86	3,63	0,0418	Izumo1	Mus musculus izumo sperm-egg fusion 1 (Izumo1), mRNA [NM_001018013]

A_52_P559919	1,86	12,55	0,0002	Eif2ak2	Mus musculus eukaryotic translation initiation factor 2-alpha kinase 2 (Eif2ak2), mRNA [NM_011163]
A_51_P519008	1,85	3,50	0,0475	Mkx	Mus musculus mohawk homeobox (Mkx), mRNA [NM_177595]
A_55_P2163438	1,84	4,16	0,0254	Actn2	Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030030118 product:ALPHA-ACTININ 2 (ALPHA ACTININ SKELETAL MUSCLE ISOFORM 2) (F-ACTIN CROSS LINKING PROTEIN) homolog [Mus musculus], full insert sequence. [AK047768]
A_55_P2001233	1,84	12,10	0,0002	Pydc3	Mus musculus pyrin domain containing 3 (Pydc3), mRNA [NM_001162938]
A_55_P2015994	1,83	7,55	0,0028	Fgf9	Mus musculus fibroblast growth factor 9 (Fgf9), mRNA [NM_013518]
A_51_P387379	1,82	5,65	0,0086	Tshz3	Mus musculus teashirt zinc finger family member 3 (Tshz3), mRNA [NM_172298]
A_66_P100586	1,82	4,44	0,0200	4930599N23 Rik	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630054A15 product:Hypothetical arginine-rich region containing protein, full insert sequence. [AK042039]
A_55_P2279498	1,81	4,89	0,0144	4933438K21 Rik	Mus musculus RIKEN cDNA 4933438K21 gene (4933438K21Rik), long non-coding RNA [NR_045446]
A_51_P238722	1,81	7,98	0,0022	Cd93	Mus musculus CD93 antigen (Cd93), mRNA [NM_010740]
A_51_P389988	1,81	10,88	0,0004	Slc40a1	Mus musculus solute carrier family 40 (iron-regulated transporter), member 1 (Slc40a1), mRNA [NM_016917]
A_55_P2152771	1,81	4,90	0,0142	Lhfp12	Mus musculus lipoma HMGIC fusion partner-like 2 (Lhfp12), mRNA [NM_172589]
A_55_P2224116	1,80	5,02	0,0130	4930543E12 Rik	Mus musculus RIKEN cDNA 4930543E12 gene (4930543E12Rik), long non-coding RNA [NR_045978]
A_51_P147274	1,80	6,57	0,0052	Clec4a3	Mus musculus C-type lectin domain family 4, member a3 (Clec4a3), transcript variant 1, mRNA [NM_153197]
A_55_P2063736	1,80	6,16	0,0064	Gp49a	Mus musculus glycoprotein 49 A (Gp49a), transcript variant 2, mRNA [NM_001291892]
A_55_P2056120	1,80	6,70	0,0048	Myt1l	Mus musculus myelin transcription factor 1-like (Myt1l), transcript variant 1, mRNA [NM_001093775]
A_55_P2173832	1,79	6,36	0,0058	Gpr125	Mus musculus G protein-coupled receptor 125 (Gpr125), mRNA [NM_133911]
A_55_P2053127	1,79	7,78	0,0024	Foxg1	Mus musculus forkhead box G1 (Foxg1), transcript variant 2, mRNA [NM_001160112]
A_55_P2117656	1,79	12,70	0,0002	Slfn8	Mus musculus schlafen 8 (Slfn8), transcript variant 1, mRNA [NM_181545]
A_51_P169693	1,79	13,15	0,0001	Bst2	Mus musculus bone marrow stromal cell antigen 2 (Bst2), mRNA [NM_198095]
A_51_P397296	1,78	3,73	0,0383	Marveld3	Mus musculus MARVEL (membrane-associating) domain containing 3 (Marveld3), transcript variant 1, mRNA [NM_028584]
A_55_P2164988	1,78	3,92	0,0320	Sqrt1	Mus musculus scratch homolog 1, zinc finger protein (Drosophila) (Sqrt1), mRNA [NM_130893]
A_66_P125177	1,78	6,75	0,0046	4931408C20 Rik	Mus musculus RIKEN cDNA 4931408C20 gene (4931408C20Rik), mRNA [NM_001033764]
A_55_P2099114	1,77	4,09	0,0271	LOC100504608	methyltransferase like 21B [Source:MGI Symbol;Acc:MGI:3645330] [ENSMUST00000116231]
A_51_P241457	1,77	8,09	0,0020	Lilrb4	Mus musculus leukocyte immunoglobulin-like receptor, subfamily B, member 4 (Lilrb4), transcript variant 1, mRNA [NM_013532]
A_51_P466910	1,77	3,75	0,0375	Cacna1g	Mus musculus calcium channel, voltage-dependent, T type, alpha 1G subunit (Cacna1g), transcript variant 1, mRNA [NM_009783]
A_55_P2165869	1,76	9,76	0,0008	Cebpb	Mus musculus CCAAT/enhancer binding protein (C/EBP), beta (Cebpb), transcript variant 1, mRNA [NM_001287738]
A_55_P2130178	1,76	5,92	0,0073	Fn1	Mus musculus fibronectin 1 (Fn1), transcript variant 1, mRNA [NM_010233]
A_55_P2020371	1,75	3,49	0,0479	Gm11543	PREDICTED: Mus musculus predicted gene 11543 (Gm11543), transcript variant X2, mRNA [XM_006534610]
A_51_P484998	1,75	3,67	0,0402	Hgf	Mus musculus hepatocyte growth factor (Hgf), transcript variant 3, mRNA [NM_010427]
A_51_P413866	1,75	5,30	0,0106	Cfb	Mus musculus complement factor B (Cfb), transcript variant 1, mRNA [NM_008198]
A_55_P2156404	1,75	3,47	0,0491	Ccdc136	coiled-coil domain containing 136 [Source:MGI Symbol;Acc:MGI:1918128] [ENSMUST0000096084]
A_52_P42762	1,74	3,90	0,0324	Zp3	Mus musculus zona pellucida glycoprotein 3 (Zp3), mRNA [NM_011776]
A_51_P472867	1,74	7,94	0,0022	Oas3	Mus musculus 2'-5' oligoadenylate synthetase 3 (Oas3), mRNA [NM_145226]
A_51_P342926	1,74	4,94	0,0139	Omd	Mus musculus osteomodulin (Omd), mRNA [NM_012050]
A_55_P2072293	1,74	3,65	0,0411	Nlrp4a	Mus musculus NLR family, pyrin domain containing 4A (Nlrp4a), mRNA [NM_172896]
A_55_P2037050	1,73	3,93	0,0315	2610305D13 Rik	Mus musculus RIKEN cDNA 2610305D13 gene (2610305D13Rik), mRNA [NM_145078]
A_52_P679860	1,73	7,99	0,0022	Herc6	Mus musculus hect domain and RLD 6 (Herc6), mRNA [NM_025992]
A_55_P2139341	1,73	14,29	0,0001	Gm5595	Mus musculus predicted gene 5595 (Gm5595), mRNA [NM_001008427]
A_51_P272876	1,73	7,55	0,0028	Fam46a	Mus musculus family with sequence similarity 46, member A (Fam46a), transcript variant 1, mRNA [NM_001160378]
A_55_P2081164	1,73	7,90	0,0023	Cd300lf	Mus musculus CD300 antigen like family member F (Cd300lf), transcript variant 1, mRNA [NM_001169153]
A_51_P140710	1,72	9,37	0,0009	Ccl3	Mus musculus chemokine (C-C motif) ligand 3 (Ccl3), mRNA [NM_011337]
A_52_P464831	1,72	3,70	0,0391	Dlx1	Mus musculus distal-less homeobox 1 (Dlx1), mRNA [NM_010053]
A_52_P199633	1,72	9,75	0,0008	Trim30d	Mus musculus tripartite motif-containing 30D (Trim30d), transcript variant 1, mRNA [NM_199146]
A_51_P112734	1,72	7,81	0,0024	Slc7a8	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 8 (Slc7a8), mRNA [NM_016972]
A_55_P1956918	1,71	4,97	0,0135	Adamts5	Mus musculus a disintegrin-like and metallopeptidase (reprolysin



					type) with thrombospondin type 1 motif, 5 (aggrecanase-2) (Adams5), mRNA [NM_011782]
A_55_P2024888	1,71	8,38	0,0017	Ctss	Mus musculus cathepsin S (Ctss), transcript variant 1, mRNA [NM_001267695]
A_55_P2153620	1,70	4,40	0,0208	Ahnak	Mus musculus AHNAK nucleoprotein (desmoyokin) (Ahnak), transcript variant 3, mRNA [NM_001039959]
A_51_P514712	1,69	11,13	0,0003	Parp14	Mus musculus poly (ADP-ribose) polymerase family, member 14 (Parp14), mRNA [NM_001039530]
A_51_P359636	1,69	16,16	0,0001	Lgals3bp	Mus musculus lectin, galactoside-binding, soluble, 3 binding protein (Lgals3bp), mRNA [NM_011150]
A_55_P2370931	1,69	3,52	0,0466	AU017674	H3092H12-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3092H12 5', mRNA sequence [CK334688]
A_55_P2178801	1,69	6,35	0,0058	Ugt1a10	Mus musculus UDP glycosyltransferase 1 family, polypeptide A10 (Ugt1a10), mRNA [NM_201641]
A_52_P467389	1,68	7,82	0,0024	Slc15a3	Mus musculus solute carrier family 15, member 3 (Slc15a3), mRNA [NM_023044]
A_55_P2016237	1,68	3,48	0,0483	Hand2	Mus musculus heart and neural crest derivatives expressed transcript 2 (Hand2), mRNA [NM_010402]
A_55_P2124923	1,68	3,65	0,0410	Gm10436	Mus musculus predicted gene 10436 (Gm10436), mRNA [NM_001105254]
A_51_P204387	1,68	4,43	0,0203	Tmem63c	Mus musculus transmembrane protein 63c (Tmem63c), mRNA [NM_172583]
A_55_P2157384	1,68	4,61	0,0176	Xlr5b	Mus musculus X-linked lymphocyte-regulated 5B (Xlr5b), mRNA [NM_001111293]
A_51_P117865	1,68	5,71	0,0084	Fam20c	Mus musculus family with sequence similarity 20, member C (Fam20c), mRNA [NM_030565]
A_55_P2243431	1,67	10,34	0,0006	Gdap10	Mus musculus ganglioside-induced differentiation-associated-protein 10 (Gdap10), long non-coding RNA [NR_045032]
A_51_P181517	1,67	6,62	0,0050	Fcgr4	Mus musculus Fc receptor, IgG, low affinity IV (Fcgr4), mRNA [NM_144559]
A_55_P2128597	1,67	6,37	0,0057	Nr1h3	Mus musculus nuclear receptor subfamily 1, group H, member 3 (Nr1h3), transcript variant 1, mRNA [NM_013839]
A_52_P140049	1,67	4,19	0,0249	Hepacam2	Mus musculus HEPACAM family member 2 (Hepacam2), mRNA [NM_178899]
A_52_P577662	1,66	4,04	0,0283	Ednrb	Mus musculus endothelin receptor type B (Ednrb), transcript variant 1, mRNA [NM_007904]
A_55_P2002802	1,66	3,67	0,0403	Usp17lc	ubiquitin specific peptidase 17-like C [Source:MGI Symbol;Acc:MGI:107698] [ENSMUST00000106892]
A_52_P607128	1,66	5,99	0,0071	Msr1	Mus musculus macrophage scavenger receptor 1 (Msr1), transcript variant 1, mRNA [NM_031195]
A_55_P2370250	1,66	5,30	0,0106	Syn3	Mus musculus 16 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:9630056N24 product:unclassifiable, full insert sequence. [AK036325]
A_55_P1974367	1,65	5,66	0,0086	Fabp3	Mus musculus fatty acid binding protein 3, muscle and heart (Fabp3), mRNA [NM_010174]
A_55_P2004960	1,65	3,46	0,0495	9130017K11 Rik	Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810451K12 product:ubiquitin specific protease 43, full insert sequence. [AK013327]
A_66_P105046	1,65	6,16	0,0064	Il18	Mus musculus interleukin 18 (Il18), mRNA [NM_008360]
A_51_P417854	1,64	6,76	0,0046	Rab20	Mus musculus RAB20, member RAS oncogene family (Rab20), mRNA [NM_011227]
A_51_P228768	1,64	6,47	0,0055	Slfn3	Mus musculus schlafen 3 (Slfn3), mRNA [NM_011409]
A_52_P117393	1,64	6,33	0,0059	Tlr6	Mus musculus toll-like receptor 6 (Tlr6), mRNA [NM_011604]
A_66_P104079	1,64	3,62	0,0422	Gm9903	Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430072H19 product:hypothetical protein, full insert sequence. [AK040173]
A_52_P422494	1,64	8,70	0,0014	Cd300lf	Mus musculus CD300 antigen like family member F (Cd300lf), transcript variant 2, mRNA [NM_145634]
A_51_P414889	1,64	13,47	0,0001	Ifi35	Mus musculus interferon-induced protein 35 (Ifi35), mRNA [NM_027320]
A_52_P90363	1,63	8,34	0,0017	Ifi2712a	Mus musculus interferon, alpha-inducible protein 27 like 2A (Ifi2712a), transcript variant 1, mRNA [NM_029803]
A_52_P284495	1,63	9,00	0,0011	Ankrd33b	Mus musculus ankyrin repeat domain 33B (Ankrd33b), transcript variant 1, mRNA [NM_026153]
A_55_P2042973	1,63	5,27	0,0108	1010001N08 Rik	Mus musculus 15 days embryo male testis cDNA, RIKEN full-length enriched library, clone:8030446N09 product:unclassifiable, full insert sequence. [AK033147]
A_51_P385351	1,63	3,80	0,0359	Slc44a3	Mus musculus solute carrier family 44, member 3 (Slc44a3), mRNA [NM_145394]
A_55_P2169356	1,63	9,44	0,0009	Gm1966	Mus musculus predicted gene 1966 (Gm1966), transcript variant 5, mRNA [NM_001277183]
A_51_P387235	1,63	12,30	0,0002	Nampt	Mus musculus nicotinamide phosphoribosyltransferase (Nampt), mRNA [NM_021524]
A_51_P262171	1,62	16,64	0,0001	Irgm1	Mus musculus immunity-related GTPase family M member 1 (Irgm1), mRNA [NM_008326]
A_51_P405476	1,62	8,33	0,0017	Fcer1g	Mus musculus Fc receptor, IgE, high affinity I, gamma polypeptide (Fcer1g), mRNA [NM_010185]
A_52_P596008	1,62	10,10	0,0006	Zeb2	Mus musculus zinc finger E-box binding homeobox 2 (Zeb2), transcript variant 2, mRNA [NM_015753]
A_55_P2110925	1,62	5,36	0,0103	Flrt3	Mus musculus fibronectin leucine rich transmembrane protein 3 (Flrt3), transcript variant 1, mRNA [NM_001172160]
A_51_P326229	1,62	5,38	0,0102	Ddx25	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 25 (Ddx25), mRNA [NM_013932]
A_51_P342877	1,62	3,60	0,0430	Scn1b	Mus musculus sodium channel, voltage-gated, type I, beta (Scn1b), mRNA [NM_011322]
A_55_P2069468	1,62	6,78	0,0045	Nt5c1b	Mus musculus 5'-nucleotidase, cytosolic 1B (Nt5c1b), mRNA [NM_027588]
A_52_P250578	1,61	3,94	0,0313	Fam115a	family with sequence similarity 115, member A [Source:MGI Symbol;Acc:MGI:1914665] [ENSMUST0000045054]
A_66_P121787	1,61	11,34	0,0003	Samd9l	Mus musculus sterile alpha motif domain containing 9-like (Samd9l), mRNA [NM_010156]

A_51_P195506	1,61	10,27	0,0006	Csf1	Mus musculus colony stimulating factor 1 (macrophage) (Csf1), transcript variant 1, mRNA [NM_007778]
A_55_P2129658	1,61	4,17	0,0252	Smad6	Mus musculus SMAD family member 6 (Smad6), mRNA [NM_008542]
A_51_P398723	1,60	8,94	0,0012	Flt1	Mus musculus FMS-like tyrosine kinase 1 (Flt1), mRNA [NM_010228]
A_55_P2003996	1,60	11,44	0,0003	H2-T24	Mus musculus histocompatibility 2, T region locus 24 (H2-T24), mRNA [NM_008207]
A_52_P671794	1,60	5,13	0,0120	Plscr4	Mus musculus phospholipid scramblase 4 (Plscr4), mRNA [NM_178711]
A_51_P336833	1,60	5,74	0,0083	Fabp4	Mus musculus fatty acid binding protein 4, adipocyte (Fabp4), mRNA [NM_024406]
A_55_P2161923	1,60	5,80	0,0080	Rabgap1	Mus musculus RAB GTPase activating protein 1 (Rabgap1), transcript variant 2, mRNA [NM_001033960]
A_66_P120249	1,60	8,36	0,0017	Nr1h3	Mus musculus nuclear receptor subfamily 1, group H, member 3 (Nr1h3), transcript variant 1, mRNA [NM_013839]
A_52_P417437	1,60	4,09	0,0272	Gab1	Mus musculus growth factor receptor bound protein 2-associated protein 1 (Gab1), mRNA [NM_021356]
A_55_P2007944	1,59	4,44	0,0200	Prkce	Mus musculus protein kinase C, epsilon (Prkce), mRNA [NM_011104]
A_55_P1972040	1,59	3,90	0,0324	Nox4	Mus musculus NADPH oxidase 4 (Nox4), transcript variant 2, mRNA [NM_001285833]
A_52_P37091	1,59	4,68	0,0166	Magi1	Mus musculus membrane associated guanylate kinase, WW and PDZ domain containing 1 (Magi1), transcript variant 7, mRNA [NM_001286786]
A_55_P1992571	1,59	5,96	0,0072	LOC102636995	PREDICTED: Mus musculus putative golgin subfamily A member 6-like protein 6-like (LOC102636995), mRNA [XM_006498515]
A_55_P2149670	1,59	5,36	0,0103	Ptchd4	Mus musculus 13 days embryo head cDNA, RIKEN full-length enriched library, clone:3110082D06 product:hypothetical protein, full insert sequence. [AK014270]
A_51_P486155	1,59	4,76	0,0157	Ocln	Mus musculus occludin (Ocln), mRNA [NM_008756]
A_55_P1965174	1,58	4,59	0,0178	Fbxl2	Mus musculus F-box and leucine-rich repeat protein 2 (Fbxl2), mRNA [NM_178624]
A_51_P246653	1,58	7,61	0,0027	Clec7a	Mus musculus C-type lectin domain family 7, member a (Clec7a), mRNA [NM_020008]
A_55_P1968763	1,58	5,85	0,0076	Shc4	Mus musculus SHC (Src homology 2 domain containing) family, member 4 (Shc4), mRNA [NM_199022]
A_52_P182391	1,58	4,35	0,0217	4930556M19 Rik	Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130022M03 product:unclassifiable, full insert sequence. [AK047938]
A_52_P452689	1,58	9,70	0,0008	Atf3	Mus musculus activating transcription factor 3 (Atf3), mRNA [NM_007498]
A_55_P2087265	1,57	8,55	0,0015	Ifitm1	Mus musculus interferon induced transmembrane protein 1, mRNA (cDNA clone MGC:102334 IMAGE:4982747), complete cds. [BC090258]
A_52_P571371	1,57	4,85	0,0148	Tmem144	Mus musculus transmembrane protein 144 (Tmem144), mRNA [NM_027495]
A_51_P485260	1,57	9,20	0,0010	Rgl1	Mus musculus ral guanine nucleotide dissociation stimulator, like 1 (Rgl1), mRNA [NM_016846]
A_55_P2004551	1,57	6,13	0,0065	Klra1	Mus musculus killer cell lectin-like receptor, subfamily A, member 1 (Klra1), mRNA [NM_016659]
A_55_P1958840	1,57	14,11	0,0001	Itga6	integrin alpha 6 [Source:MGI Symbol;Acc:MGI:96605] [ENSMUST00000139760]
A_51_P282557	1,57	4,52	0,0189	C3ar1	Mus musculus complement component 3a receptor 1 (C3ar1), mRNA [NM_009779]
A_55_P2050747	1,57	3,73	0,0384	4930557B15 Rik	PREDICTED: Mus musculus RIKEN cDNA 4930557B15 gene (4930557B15Rik), transcript variant X1, ncRNA [XR_389560]
A_55_P2085142	1,56	8,19	0,0019	Spp1	Mus musculus secreted phosphoprotein 1 (Spp1), transcript variant 5, mRNA [NM_001204233]
A_55_P2142863	1,56	18,94	0,0001	Parp9	Mus musculus poly (ADP-ribose) polymerase family, member 9 (Parp9), mRNA [NM_030253]
A_55_P1953169	1,56	5,81	0,0079	Saa3	Mus musculus serum amyloid A 3 (Saa3), mRNA [NM_011315]
A_55_P2033215	1,55	6,21	0,0063	Cabp5	Mus musculus calcium binding protein 5 (Cabp5), mRNA [NM_013877]
A_66_P119801	1,55	3,65	0,0412	Optn	Mus musculus optineurin (Optn), mRNA [NM_181848]
A_52_P642626	1,55	3,47	0,0489	Rbm20	Mus musculus RNA binding motif protein 20 (Rbm20), mRNA [NM_001170847]
A_51_P465148	1,55	9,17	0,0010	Ctsb	Mus musculus cathepsin B (Ctsb), mRNA [NM_007798]
A_51_P336049	1,55	4,10	0,0270	Krt33b	Mus musculus keratin 33B (Krt33b), mRNA [NM_013570]
A_66_P112684	1,54	3,53	0,0461	Lsamp	PREDICTED: Mus musculus limbic system-associated membrane protein (Lsamp), transcript variant X1, mRNA [XM_006522201]
A_52_P127925	1,54	3,47	0,0489	Tfec	Mus musculus transcription factor EC (Tfec), mRNA [NM_031198]
A_55_P1981479	1,54	9,50	0,0009	Irgm1	Mus musculus immunity-related GTPase family M member 1 (Irgm1), mRNA [NM_008326]
A_55_P1969002	1,54	5,68	0,0085	Tbx3	Mus musculus T-box 3 (Tbx3), transcript variant 2, mRNA [NM_198052]
A_55_P2072522	1,54	3,97	0,0302	Pcdhb16	Mus musculus protocadherin beta 16 (Pcdhb16), mRNA [NM_053141]
A_51_P392303	1,54	3,46	0,0495	Lrrn3	Mus musculus leucine rich repeat protein 3, neuronal (Lrrn3), transcript variant 2, mRNA [NM_010733]
A_55_P2118609	1,54	5,31	0,0106	St6galnac1	Mus musculus ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1 (St6galnac1), mRNA [NM_011371]
A_55_P2148402	1,53	4,83	0,0149	Cplx2	Mus musculus complexin 2 (Cplx2), mRNA [NM_009946]
A_55_P2033435	1,53	5,52	0,0092	1300002K09 Rik	Mus musculus RIKEN cDNA 1300002K09 gene (1300002K09Rik), mRNA [NM_028788]
A_55_P2171658	1,53	7,82	0,0024	Stx3	Mus musculus syntaxin 3 (Stx3), transcript variant A, mRNA [NM_152220]

A_55_P2146254	1,53	7,55	0,0028	Ifitm1	Mus musculus interferon induced transmembrane protein 1 (Ifitm1), transcript variant 2, mRNA [NM_001112715]
A_51_P512960	1,53	5,44	0,0098	Spsb4	splA/ryanodine receptor domain and SOCS box containing 4 [Source:MGI Symbol;Acc:MGI:2183445] [ENSMUST00000064445]
A_51_P190254	1,53	3,98	0,0302	Scrn1	secernin 1 [Source:MGI Symbol;Acc:MGI:1917188] [ENSMUST00000019268]
A_52_P526379	1,53	4,38	0,0211	Stx3	Mus musculus syntaxin 3 (Stx3), transcript variant B, mRNA [NM_001025307]
A_51_P327874	1,53	3,59	0,0436	Pth1r	Mus musculus parathyroid hormone 1 receptor (Pth1r), transcript variant 1, mRNA [NM_011199]
A_66_P124806	1,53	3,58	0,0437	Tlr4	Mus musculus toll-like receptor 4 (Tlr4), mRNA [NM_021297]
A_51_P211998	1,53	4,42	0,0205	Sgms2	Mus musculus sphingomyelin synthase 2 (Sgms2), mRNA [NM_028943]
A_55_P2026688	1,52	8,85	0,0012	Rnf213	ring finger protein 213 [Source:MGI Symbol;Acc:MGI:1289196] [ENSMUST00000093902]
A_55_P2131520	1,52	5,99	0,0071	Vash1	Mus musculus vasohibin 1 (Vash1), mRNA [NM_177354]
A_55_P2004511	1,52	4,93	0,0139	Cd300lf	Mus musculus CD300 antigen like family member F (Cd300lf), transcript variant 1, mRNA [NM_001169153]
A_55_P2419021	1,52	4,60	0,0176	9330188P03 Rik	Mus musculus RIKEN cDNA 9330188P03 gene (9330188P03Rik), long non-coding RNA [NR_102319]
A_55_P1959973	1,52	5,66	0,0086	Dcaf12l2	Mus musculus DDB1 and CUL4 associated factor 12-like 2 (Dcaf12l2), mRNA [NM_175539]
A_55_P2040775	1,52	5,21	0,0113	Cplx2	Mus musculus 921-L mRNA for presynaptic protein, complete cds. [D38613]
A_55_P2245904	1,52	4,40	0,0208	9530003004 Rik	Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:9530003004 product:unclassifiable, full insert sequence. [AK020539]
A_55_P2033780	1,52	7,60	0,0027	Fabp3	Mus musculus fatty acid binding protein 3, muscle and heart (Fabp3), mRNA [NM_010174]
A_55_P2020361	1,52	5,78	0,0081	Lzts3	Mus musculus leucine zipper, putative tumor suppressor family member 3 (Lzts3), transcript variant 1, mRNA [NM_197945]
A_55_P2013356	1,52	5,25	0,0109	Renbp	Mus musculus renin binding protein (Renbp), transcript variant 1, mRNA [NM_023132]
A_51_P186476	1,51	7,92	0,0022	Slc11a1	Mus musculus solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1 (Slc11a1), mRNA [NM_013612]
A_55_P2089565	1,51	5,95	0,0072	Tbx22	T-box 22 [Source:MGI Symbol;Acc:MGI:2389465] [ENSMUST00000118986]
A_55_P2146185	1,51	5,75	0,0083	Rs1	Mus musculus retinosischisis (X-linked, juvenile) 1 (human) (Rs1), mRNA [NM_011302]
A_55_P2083988	1,51	9,14	0,0010	Lmo2	Mus musculus LIM domain only 2 (Lmo2), transcript variant 1, mRNA [NM_008505]
A_51_P424532	1,51	3,68	0,0399	Vnn1	Mus musculus vanin 1 (Vnn1), mRNA [NM_011704]
A_55_P1998416	1,51	12,12	0,0002	Ifi47	Mus musculus interferon gamma inducible protein 47 (Ifi47), transcript variant 2, mRNA [NM_001271676]
A_55_P1994042	1,51	9,49	0,0009	Zbp1	Mus musculus Z-DNA binding protein 1 (Zbp1), transcript variant 2, mRNA [NM_001139519]
A_55_P1996973	1,51	8,28	0,0018	Gvin1	Mus musculus GTPase, very large interferon inducible 1 (Gvin1), transcript variant 1, mRNA [NM_029000]
A_55_P1959953	1,51	13,06	0,0002	Helz2	Mus musculus helicase with zinc finger 2, transcriptional coactivator (Helz2), mRNA [NM_183162]
A_55_P2067960	1,50	5,61	0,0089	Cplx2	Mus musculus complexin 2 (Cplx2), mRNA [NM_009946]
A_51_P143296	1,50	4,82	0,0150	Myh8	Mus musculus myosin, heavy polypeptide 8, skeletal muscle, perinatal (Myh8), mRNA [NM_177369]
A_55_P1966721	1,50	12,79	0,0002	9930105H17 Rik	Mus musculus RIKEN cDNA 9930105H17 gene, mRNA (cDNA clone IMAGE:3587376), containing frame-shift errors. [BC027236]
A_55_P2144556	1,50	4,55	0,0185	Flrt3	Mus musculus fibronectin leucine rich transmembrane protein 3 (Flrt3), transcript variant 1, mRNA [NM_001172160]
A_55_P2178723	1,50	4,74	0,0160	Dtl	Mus musculus Meth A ramp mRNA for Meth A retinoic-acid regulated nuclear matrix-associated protein, complete cds. [AB095736]
A_51_P207706	1,50	3,64	0,0416	Fam180a	Mus musculus family with sequence similarity 180, member A (Fam180a), mRNA [NM_173375]
A_55_P1994927	1,49	9,16	0,0010	Rab3il1	Mus musculus RAB3A interacting protein (rabin3)-like 1 (Rab3il1), mRNA [NM_144538]
A_55_P2112320	1,48	4,18	0,0251	LOC102632285	PREDICTED: Mus musculus WD repeat-containing protein 87-like (LOC102632285), mRNA [XM_006540522]
A_55_P2472435	1,48	11,18	0,0003	Gbp3	Mus musculus guanylate binding protein 3 (Gbp3), transcript variant 1, mRNA [NM_001289492]
A_52_P42269	1,48	4,90	0,0142	Fgf10	Mus musculus fibroblast growth factor 10 (Fgf10), mRNA [NM_008002]
A_51_P497661	1,48	3,52	0,0469	Ntn4	Mus musculus netrin 4 (Ntn4), mRNA [NM_021320]
A_55_P2091942	1,47	3,84	0,0345	BC061237	Mus musculus cDNA sequence BC061237 (BC061237), mRNA [NM_198677]
A_55_P1981461	1,47	4,16	0,0255	5430410E06 Rik	Mus musculus 6 days neonate head cDNA, RIKEN full-length enriched library, clone:5430410E06 product:unclassifiable, full insert sequence. [AK017289]
A_51_P257419	1,47	4,88	0,0145	Lhx2	Mus musculus LIM homeobox protein 2 (Lhx2), transcript variant 1, mRNA [NM_010710]
A_55_P1988202	1,47	11,57	0,0003	Ifi203	Mus musculus interferon activated gene 203 (Ifi203), transcript variant 1, mRNA [NM_001045481]
A_52_P64514	1,47	6,15	0,0065	Herc6	Mus musculus hect domain and RLD 6 (Herc6), mRNA [NM_025992]
A_66_P117254	1,47	3,78	0,0366	A530095107 Rik	Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530095107 product:hypothetical protein, full insert sequence. [AK041266]
A_52_P535484	1,47	10,11	0,0006	Gvin1	Mus musculus GTPase, very large interferon inducible 1 (Gvin1), transcript variant 1, mRNA [NM_029000]
A_51_P133562	1,47	3,54	0,0455	Serpina6	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 6 (Serpina6), mRNA [NM_007618]

A_55_P1955183	1,47	4,22	0,0241	Crxos	Mus musculus cone-rod homeobox, opposite strand (Crxos), transcript variant 1, mRNA [NM_001033638]
A_66_P119034	1,46	8,10	0,0020	Pla2g7	Mus musculus phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) (Pla2g7), mRNA [NM_013737]
A_55_P2137049	1,46	8,52	0,0015	AA467197	Mus musculus expressed sequence AA467197 (AA467197), mRNA [NM_001004174]
A_51_P265495	1,46	9,43	0,0009	Ly6a	Mus musculus lymphocyte antigen 6 complex, locus A (Ly6a), transcript variant 3, mRNA [NM_010738]
A_55_P1974687	1,46	4,29	0,0229	40603	Mus musculus membrane-associated ring finger (C3HC4) 11 (March11), mRNA [NM_177597]
A_55_P2179604	1,46	5,84	0,0077	Vash1	Mus musculus vasohibin 1 (Vash1), mRNA [NM_177354]
A_55_P2407367	1,46	4,04	0,0284	9130001E16 Rik	PREDICTED: Mus musculus RIKEN cDNA 9130001E16 gene (9130001E16Rik), ncRNA [XR_386048]
A_55_P2073572	1,46	4,10	0,0270	Ankef1	Mus musculus ankyrin repeat and EF-hand domain containing 1 (Ankef1), mRNA [NM_175667]
A_55_P2062246	1,45	13,70	0,0001	Tgtp2	Mus musculus T cell specific GTPase 2 (Tgtp2), mRNA [NM_001145164]
A_55_P2256586	1,45	5,22	0,0111	Gm11783	PREDICTED: Mus musculus uncharacterized LOC621549 (LOC621549), transcript variant X1, ncRNA [XR_406739]
A_55_P2328082	1,45	3,74	0,0379	AI606473	Mus musculus expressed sequence AI606473 (AI606473), long non-coding RNA [NR_040387]
A_55_P2179413	1,45	16,05	0,0001	Lgals3bp	Mus musculus lectin, galactoside-binding, soluble, 3 binding protein (Lgals3bp), mRNA [NM_011150]
A_52_P619248	1,45	5,61	0,0089	PrI2c5	Mus musculus prolactin family 2, subfamily c, member 5 (PrI2c5), mRNA [NM_181852]
A_55_P1953400	1,44	4,66	0,0169	Rbfox1	Mus musculus RNA binding protein, fox-1 homolog (C. elegans) 1 (Rbfox1), transcript variant 2, mRNA [NM_021477]
A_51_P256827	1,44	5,98	0,0071	S100a8	Mus musculus S100 calcium binding protein A8 (calgranulin A) (S100a8), mRNA [NM_013650]
A_55_P2118873	1,44	7,57	0,0028	1700054019 Rik	PREDICTED: Mus musculus RIKEN cDNA 1700054019 gene (1700054019Rik), misc RNA [XR_383299]
A_51_P227392	1,44	6,61	0,0050	Rhou	Mus musculus ras homolog gene family, member U (Rhou), mRNA [NM_133955]
A_55_P2124313	1,44	3,48	0,0482	Vmn1r231	Mus musculus vomeronasal 1 receptor 231 (Vmn1r231), mRNA [NM_134196]
A_55_P2156905	1,44	6,00	0,0070	Sox5	Mus musculus SRY (sex determining region Y)-box 5 (Sox5), transcript variant 1, mRNA [NM_011444]
A_51_P419117	1,44	9,65	0,0008	Rab15	Mus musculus RAB15, member RAS oncogene family (Rab15), mRNA [NM_134050]
A_55_P2030524	1,43	4,61	0,0176	Vldlr	Mus musculus very low density lipoprotein receptor (Vldlr), transcript variant 1, mRNA [NM_013703]
A_55_P2170034	1,43	6,90	0,0042	Rgl1	Mus musculus ral guanine nucleotide dissociation stimulator, like 1 (Rgl1), mRNA [NM_016846]
A_55_P2048279	1,43	10,72	0,0004	Tlr13	Mus musculus toll-like receptor 13 (Tlr13), mRNA [NM_205820]
A_55_P2057936	1,43	6,70	0,0047	Gm12250	Mus musculus predicted gene 12250 (Gm12250), mRNA [NM_001135115]
A_51_P320852	1,42	9,43	0,0009	Cd9	Mus musculus CD9 antigen (Cd9), mRNA [NM_007657]
A_51_P438967	1,42	6,75	0,0047	Gpnmb	Mus musculus glycoprotein (transmembrane) nmb (Gpnmb), mRNA [NM_053110]
A_55_P1990061	1,42	3,76	0,0374	Mylk3	Mus musculus myosin light chain kinase 3 (Mylk3), mRNA [NM_175441]
A_51_P105124	1,42	5,60	0,0089	P2ry6	Mus musculus pyrimidinergic receptor P2Y, G-protein coupled, 6 (P2ry6), mRNA [NM_183168]
A_55_P2092859	1,42	7,62	0,0027	Anxa4	Mus musculus annexin A4 (Anxa4), mRNA [NM_013471]
A_55_P1986596	1,42	3,78	0,0367	Cacna1h	Mus musculus calcium channel, voltage-dependent, T type, alpha 1H subunit (Cacna1h), transcript variant 1, mRNA [NM_021415]
A_52_P408757	1,42	3,90	0,0324	Fcgr3	Mus musculus Fc receptor, IgG, low affinity III (Fcgr3), mRNA [NM_010188]
A_52_P581066	1,42	4,38	0,0212	Arhgap42	Mus musculus Rho GTPase activating protein 42 (Arhgap42), mRNA [NM_027823]
A_55_P2059154	1,42	14,65	0,0001	Dtx3l	Mus musculus deltex 3-like (Drosophila) (Dtx3l), mRNA [NM_001013371]
A_55_P2098071	1,41	12,95	0,0002	Trim25	Mus musculus tripartite motif-containing 25 (Trim25), mRNA [NM_009546]
A_55_P2052380	1,41	8,19	0,0019	Gbp6	Mus musculus guanylate binding protein 6 (Gbp6), mRNA [NM_194336]
A_51_P100298	1,41	4,74	0,0160	Stx3	Mus musculus syntaxin 3 (Stx3), transcript variant A, mRNA [NM_152220]
A_55_P2180854	1,40	3,86	0,0338	Mrgprg	Mus musculus MAS-related GPR, member G (Mrgprg), mRNA [NM_203492]
A_55_P2172934	1,40	5,21	0,0112	Plp1	Mus musculus proteolipid protein (myelin) 1 (Plp1), transcript variant 1, mRNA [NM_011123]
A_55_P2072168	1,40	4,48	0,0196	Olf1r616	Mus musculus olfactory receptor 616 (Olf1r616), mRNA [NM_147099]
A_55_P1965000	1,40	13,84	0,0001	Ddx58	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 (Ddx58), mRNA [NM_172689]
A_55_P1962404	1,40	9,26	0,0010	Ugt1a6b	Mus musculus UDP glucuronosyltransferase 1 family, polypeptide A6B (Ugt1a6b), mRNA [NM_201410]
A_55_P2161219	1,40	4,55	0,0186	Thsd7a	Mus musculus thrombospondin, type I, domain containing 7A (Thsd7a), mRNA [NM_001164805]
A_51_P241843	1,40	3,68	0,0400	Tmem202	Mus musculus transmembrane protein 202 (Tmem202), mRNA [NM_178388]
A_55_P1957459	1,40	6,37	0,0057	Lilrb4	Mus musculus leukocyte immunoglobulin-like receptor, subfamily B, member 4 (Lilrb4), transcript variant 2, mRNA [NM_001291894]
A_51_P414396	1,40	5,04	0,0128	Mmrn2	Mus musculus multimerin 2 (Mmrn2), mRNA [NM_153127]
A_55_P2033278	1,39	5,43	0,0098	Speer5-ps1	Mus musculus spermatogenesis associated glutamate (E)-rich protein 5, pseudogene 1 (Speer5-ps1), transcript variant 1, non-coding RNA [NR_001582]

A_55_P2003991	1,39	10,43	0,0005	H2-T24	Mus musculus histocompatibility 2, T region locus 24 (H2-T24), mRNA [NM_008207]
A_55_P2105819	1,39	6,43	0,0055	Tbc1d31	PREDICTED: Mus musculus TBC1 domain family, member 31 (Tbc1d31), transcript variant X1, mRNA [XM_006520698]
A_65_P16680	1,39	7,75	0,0024	B4galt5	Mus musculus UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5 (B4galt5), mRNA [NM_019835]
A_55_P2175486	1,39	3,48	0,0484	Gm10375	Mus musculus predicted gene 10375 (Gm10375), mRNA [NM_001098269]
A_55_P1961761	1,39	6,07	0,0067	Dcc	Mus musculus deleted in colorectal carcinoma (Dcc), mRNA [NM_007831]
A_51_P258372	1,39	4,47	0,0197	Igsf6	Mus musculus immunoglobulin superfamily, member 6 (Igsf6), mRNA [NM_030691]
A_51_P323180	1,39	7,80	0,0024	Gbp9	Mus musculus guanylate-binding protein 9 (Gbp9), mRNA [NM_172777]
A_55_P1981829	1,38	6,15	0,0065	Rhox8	Mus musculus reproductive homeobox 8 (Rhox8), mRNA [NM_001004193]
A_66_P109368	1,38	6,25	0,0061	Prex2	Mus musculus phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2 (Prex2), transcript variant 1, mRNA [NM_029525]
A_55_P2035509	1,38	5,35	0,0103	Pyhin1	Mus musculus pyrin and HIN domain family, member 1 (Pyhin1), mRNA [NM_175026]
A_55_P2002790	1,38	3,86	0,0337	LOC102636289	PREDICTED: Mus musculus uncharacterized LOC102636289 (LOC102636289), transcript variant X2, ncRNA [XR_390298]
A_55_P2130987	1,38	4,70	0,0163	Chrna1	Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 1 (muscle) (Chrna1), mRNA [NM_007389]
A_55_P2021011	1,38	4,64	0,0171	Sfi1	Mus musculus Sfi1 homolog, spindle assembly associated (yeast) (Sfi1), mRNA [NM_030207]
A_52_P552665	1,38	3,99	0,0297	Fzd7	Mus musculus frizzled homolog 7 (Drosophila) (Fzd7), mRNA [NM_008057]
A_55_P1990633	1,38	3,74	0,0378	Iigp1	Mus musculus interferon inducible GTPase 1 (Iigp1), transcript variant 2, mRNA [NM_001146275]
A_51_P401987	1,38	9,87	0,0007	Tmem37	Mus musculus transmembrane protein 37 (Tmem37), mRNA [NM_019432]
A_55_P2064771	1,38	8,31	0,0017	Ly6c1	Mus musculus lymphocyte antigen 6 complex, locus C1 (Ly6c1), transcript variant 2, mRNA [NM_001252055]
A_55_P2269254	1,38	5,23	0,0111	5730419F03Rik	PREDICTED: Mus musculus RIKEN cDNA 5730419F03 gene (5730419F03Rik), ncRNA [XR_373931]
A_55_P2183597	1,38	11,46	0,0003	Tbc1d2	Mus musculus TBC1 domain family, member 2 (Tbc1d2), mRNA [NM_198664]
A_55_P2061170	1,37	13,39	0,0001	Tbc1d2	Mus musculus TBC1 domain family, member 2 (Tbc1d2), mRNA [NM_198664]
A_55_P1962305	1,37	7,03	0,0039	Plac8	Mus musculus placenta-specific 8 (Plac8), mRNA [NM_139198]
A_55_P2029711	1,37	5,48	0,0095	Cdh2	Mus musculus cadherin 2 (Cdh2), mRNA [NM_007664]
A_55_P2114697	1,37	5,90	0,0074	Gcm1	Mus musculus glial cells missing homolog 1 (Drosophila) (Gcm1), mRNA [NM_008103]
A_51_P267239	1,37	10,77	0,0004	Litaf	Mus musculus LPS-induced TN factor (Litaf), mRNA [NM_019980]
A_51_P375987	1,37	3,63	0,0417	Fign	Mus musculus fidgetin (Fign), transcript variant 1, mRNA [NM_021716]
A_55_P2100149	1,37	4,56	0,0184	Mapt	Mus musculus microtubule-associated protein tau (Mapt), transcript variant 4, mRNA [NM_001285455]
A_55_P2047639	1,36	3,64	0,0415	Cubn	Mus musculus cubilin (intrinsic factor-cobalamin receptor) (Cubn), mRNA [NM_001081084]
A_55_P2048912	1,36	6,08	0,0067	Themis2	Mus musculus thymocyte selection associated family member 2 (Themis2), mRNA [NM_001033308]
A_55_P2003813	1,36	4,49	0,0194	Scn3b	Mus musculus sodium channel, voltage-gated, type III, beta (Scn3b), transcript variant 2, mRNA [NM_178227]
A_55_P2154107	1,36	6,74	0,0047	Gcm1	Mus musculus glial cells missing homolog 1 (Drosophila) (Gcm1), mRNA [NM_008103]
A_55_P1959064	1,35	10,85	0,0004	Oas1b	Mus musculus 2'-5' oligoadenylate synthetase 1B (Oas1b), mRNA [NM_001083925]
A_55_P2104487	1,35	6,54	0,0052	Pld1	Mus musculus phospholipase D1 (Pld1), transcript variant 1, mRNA [NM_001164056]
A_55_P2164932	1,35	3,74	0,0380	Gsdmc4	Mus musculus gasdermin C4 (Gsdmc4), mRNA [NM_028992]
A_65_P13459	1,35	3,96	0,0308	Cd300lb	Mus musculus CD300 antigen like family member B (Cd300lb), mRNA [NM_199221]
A_52_P327664	1,35	4,97	0,0135	Gbp5	Mus musculus guanylate binding protein 5 (Gbp5), mRNA [NM_153564]
A_66_P122086	1,34	6,57	0,0052	9030619P08Rik	Mus musculus RIKEN cDNA 9030619P08 gene (9030619P08Rik), non-coding RNA [NR_108041]
A_51_P461319	1,34	6,28	0,0061	Gatm	Mus musculus glycine amidinotransferase (L-arginine:glycine amidinotransferase) (Gatm), mRNA [NM_025961]
A_55_P2143499	1,34	4,41	0,0207	Pgbd5	Mus musculus piggyBac transposable element derived 5 (Pgbd5), mRNA [NM_171824]
A_55_P1961943	1,34	9,07	0,0011	Cd68	Mus musculus CD68 antigen (Cd68), transcript variant 1, mRNA [NM_001291058]
A_52_P472324	1,34	9,24	0,0010	Slpi	Mus musculus secretory leukocyte peptidase inhibitor (Slpi), mRNA [NM_011414]
A_66_P118091	1,34	4,07	0,0275	Tor3a	Mus musculus torsin family 3, member A (Tor3a), mRNA [NM_023141]
A_51_P377812	1,34	5,30	0,0106	1700011E24Rik	Mus musculus RIKEN cDNA 1700011E24 gene (1700011E24Rik), mRNA [NM_029298]
A_55_P2021275	1,33	4,41	0,0207	Iqca	Mus musculus IQ motif containing with AAA domain (Iqca), mRNA [NM_029122]
A_55_P2000133	1,33	6,74	0,0047	Cdh2	Mus musculus cadherin 2 (Cdh2), mRNA [NM_007664]
A_52_P282741	1,33	7,11	0,0037	Sdc3	Mus musculus syndecan 3 (Sdc3), mRNA [NM_011520]
A_55_P2029902	1,33	6,26	0,0061	Gab3	Mus musculus growth factor receptor bound protein 2-associated protein 3 (Gab3), mRNA [NM_181584]
A_55_P2050932	1,32	7,28	0,0033	Tlr7	Mus musculus toll-like receptor 7 (Tlr7), transcript variant 1, mRNA [NM_001290755]



A_55_P1962603	1,32	6,28	0,0061	Cplx2	Mus musculus complexin 2 (Cplx2), mRNA [NM_009946]
A_55_P1988368	1,32	5,78	0,0081	Upp1	Mus musculus uridine phosphorylase 1 (Upp1), transcript variant 1, mRNA [NM_009477]
A_52_P385536	1,32	5,90	0,0074	Ddx58	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 (Ddx58), mRNA [NM_172689]
A_55_P2160253	1,32	8,60	0,0015	6720475]19Rik	Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720475]19 product:hypothetical protein, full insert sequence. [AK020160]
A_55_P2118037	1,32	5,72	0,0084	Sirpa	Mus musculus signal-regulatory protein alpha (Sirpa), transcript variant 4, mRNA [NM_001291019]
A_51_P157042	1,31	4,70	0,0164	Ctgf	Mus musculus connective tissue growth factor (Ctgf), mRNA [NM_010217]
A_55_P2034998	1,31	4,46	0,0199	Tjp1	Mus musculus tight junction protein 1 (Tjp1), transcript variant 1, mRNA [NM_009386]
A_51_P259118	1,31	5,88	0,0076	Klhl1	Mus musculus kelch-like 1 (Klhl1), mRNA [NM_053105]
A_55_P2072095	1,31	3,51	0,0470	Dpcr1	Mus musculus diffuse panbronchiolitis critical region 1 (human) (Dpcr1), mRNA [NM_001033366]
A_55_P2004876	1,31	3,46	0,0494	Srpx2	Mus musculus sushi-repeat-containing protein, X-linked 2 (Srpx2), transcript variant 1, mRNA [NM_026838]
A_55_P2048855	1,31	5,71	0,0084	Spr2a2	Mus musculus small proline-rich protein 2A2 (Spr2a2), mRNA [NM_001164787]
A_51_P108108	1,31	3,85	0,0341	Lrrc25	Mus musculus leucine rich repeat containing 25 (Lrrc25), mRNA [NM_153074]
A_55_P2129047	1,31	3,83	0,0347	Tlr7	Mus musculus toll-like receptor 7 (Tlr7), transcript variant 1, mRNA [NM_001290755]
A_55_P1960999	1,30	5,73	0,0083	Pigr	Mus musculus polymeric immunoglobulin receptor (Pigr), mRNA [NM_011082]
A_52_P304128	1,30	5,82	0,0078	Mmp14	Mus musculus matrix metalloproteinase 14 (membrane-inserted) (Mmp14), mRNA [NM_008608]
A_66_P105689	1,30	8,12	0,0020	Trim34a	Mus musculus tripartite motif-containing 34A (Trim34a), mRNA [NM_030684]
A_55_P1989813	1,30	5,31	0,0106	Gcm1	Mus musculus glial cells missing homolog 1 (Drosophila) (Gcm1), mRNA [NM_008103]
A_55_P2092826	1,30	5,85	0,0077	Anxa1	Mus musculus annexin A1 (Anxa1), mRNA [NM_010730]
A_55_P2106429	1,29	7,09	0,0037	Herc2	Mus musculus hect (homologous to the E6-AP (UBE3A) carboxyl terminus) domain and RCC1 (CHC1)-like domain (RLD) 2 (Herc2), mRNA [NM_010418]
A_51_P374726	1,29	3,71	0,0388	Ptx3	Mus musculus pentraxin related gene (Ptx3), mRNA [NM_008987]
A_51_P501248	1,29	6,28	0,0061	Sphk1	Mus musculus sphingosine kinase 1 (Sphk1), transcript variant 2, mRNA [NM_025367]
A_55_P2095311	1,29	5,54	0,0092	Ly6g	lymphocyte antigen 6 complex, locus G [Source:MGI Symbol;Acc:MGI:109440] [ENSMUST00000023246]
A_55_P2189643	1,29	5,58	0,0090	4933417C20Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933417C20 product:RIKEN cDNA 4933417C20 gene, full insert sequence. [AK016840]
A_55_P2216079	1,29	5,58	0,0090	9630055L06Rik	Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130006D24 product:unclassifiable, full insert sequence. [AK053276]
A_51_P117236	1,29	5,08	0,0124	Zfp354a	Mus musculus zinc finger protein 354A (Zfp354a), mRNA [NM_009329]
A_55_P2193064	1,28	4,43	0,0203	6720473M08Rik	Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library, clone:D230040F06 product:hypothetical protein, full insert sequence. [AK142114]
A_55_P2066230	1,28	5,89	0,0075	Hck	Mus musculus hemopoietic cell kinase (Hck), transcript variant 1, mRNA [NM_001172117]
A_55_P1971739	1,28	3,90	0,0325	Nlrp4e	Mus musculus NLR family, pyrin domain containing 4E (Nlrp4e), mRNA [NM_001004194]
A_55_P2003092	1,28	3,86	0,0338	Sbpl	Mus musculus spermine binding protein-like (Sbpl), mRNA [NM_001077421]
A_51_P229602	1,28	3,64	0,0413	Plxna2	Mus musculus plexin A2 (Plxna2), mRNA [NM_008882]
A_55_P2136752	1,28	5,57	0,0090	Ernm	Mus musculus ermin, ERM-like protein (Ernm), mRNA [NM_029972]
A_55_P2014326	1,28	5,76	0,0082	LOC102636995	PREDICTED: Mus musculus putative golgin subfamily A member 6-like protein 6-like (LOC102636995), mRNA [XM_006498515]
A_55_P1978532	1,27	3,93	0,0316	Gm10439	Mus musculus predicted gene 10439 (Gm10439), mRNA [NM_001037716]
A_65_P17218	1,27	10,96	0,0004	Mndal	Mus musculus myeloid nuclear differentiation antigen like (Mndal), mRNA [NM_001170853]
A_55_P2045367	1,27	4,22	0,0243	G630025P09Rik	Mus musculus RIKEN cDNA G630025P09 gene (G630025P09Rik), long non-coding RNA [NR_027913]
A_51_P412835	1,27	11,75	0,0003	Daxx	Mus musculus Fas death domain-associated protein (Daxx), transcript variant 2, mRNA [NM_007829]
A_52_P522427	1,27	3,67	0,0402	Hsh2d	Mus musculus hematopoietic SH2 domain containing (Hsh2d), mRNA [NM_197944]
A_51_P326191	1,27	8,23	0,0018	Serpina3g	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3G (Serpina3g), mRNA [NM_009251]
A_55_P2017914	1,27	5,43	0,0099	Csf1	Mus musculus colony stimulating factor 1 (macrophage) (Csf1), transcript variant 3, mRNA [NM_001113530]
A_55_P2051120	1,26	8,64	0,0014	4430402118Rik	Mus musculus RIKEN cDNA 4430402118 gene (4430402118Rik), mRNA [NM_198651]
A_66_P128997	1,26	9,86	0,0007	Pml	Mus musculus promyelocytic leukemia (Pml), transcript variant 2, mRNA [NM_178087]
A_55_P2175976	1,26	3,85	0,0342	Vmn2r35	Mus musculus vomeronasal 2, receptor 35 (Vmn2r35), mRNA [NM_001105067]
A_55_P2173857	1,26	3,50	0,0474	Orly	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930529H12 product:RIKEN cDNA 4930529H12 gene, full insert sequence. [AK015935]
A_55_P2181222	1,26	9,83	0,0008	Pydc3	Mus musculus pyrin domain containing 3 (Pydc3), mRNA [NM_001162938]

A_55_P2009121	1,26	12,40	0,0002	Agrn	Mus musculus agrin (Agrn), mRNA [NM_021604]
A_52_P168567	1,25	3,72	0,0387	Cebpa	Mus musculus CCAAT/enhancer binding protein (C/EBP), alpha (Cebpa), transcript variant 1, mRNA [NM_007678]
A_52_P266132	1,25	3,74	0,0380	Fgl2	Mus musculus fibrinogen-like protein 2 (Fgl2), mRNA [NM_008013]
A_55_P2122020	1,25	6,13	0,0065	Klf4	Mus musculus Kruppel-like factor 4 (gut) (Klf4), mRNA [NM_010637]
A_55_P2142830	1,25	10,24	0,0006	Ninj1	Mus musculus ninjurin 1 (Ninj1), mRNA [NM_013610]
A_55_P2017769	1,25	5,96	0,0072	B020031M17 Rik	Mus musculus RIKEN cDNA B020031M17 gene (B020031M17Rik), mRNA [NM_001033769]
A_55_P2025765	1,25	7,29	0,0033	Adam8	Mus musculus a disintegrin and metalloproteinase domain 8 (Adam8), transcript variant 1, mRNA [NM_007403]
A_55_P2016034	1,25	8,91	0,0012	Nlr5	Mus musculus NLR family, CARD domain containing 5 (Nlr5), mRNA [NM_001033207]
A_55_P2112270	1,24	3,57	0,0444	Gm6556	PREDICTED: Mus musculus predicted gene 6556 (Gm6556), misc_RNA [XR_382093]
A_51_P134627	1,24	7,80	0,0024	Asb13	Mus musculus ankyrin repeat and SOCS box-containing 13 (Asb13), transcript variant 1, mRNA [NM_178283]
A_51_P192089	1,24	5,67	0,0086	Pinx1	Mus musculus PIN2/TERF1 interacting, telomerase inhibitor 1 (Pinx1), mRNA [NM_028228]
A_55_P2182452	1,24	4,27	0,0233	Tnfsf15	Mus musculus tumor necrosis factor (ligand) superfamily, member 15 (Tnfsf15), mRNA [NM_177371]
A_55_P1966194	1,24	6,26	0,0061	Plek	Mus musculus pleckstrin (Plek), mRNA [NM_019549]
A_55_P1953984	1,24	3,88	0,0331	Gm11033	Mus musculus lung RCB-0558 LLC cDNA, RIKEN full-length enriched library, clone:G730040L14 product:hypothetical Cysteine-rich region profile containing protein, full insert sequence. [AK144838]
A_55_P2034928	1,24	11,66	0,0003	BC147527	Mus musculus cDNA sequence BC147527 (BC147527), mRNA [NM_001037925]
A_55_P2184189	1,24	7,48	0,0029	Ncf2	Mus musculus neutrophil cytosolic factor 2, mRNA (cDNA clone MGC:5795 IMAGE:3592460), complete cds. [BC003730]
A_52_P664656	1,24	3,74	0,0380	Acvr2a	Mus musculus activin receptor IIA (Acvr2a), mRNA [NM_007396]
A_55_P2039230	1,24	3,54	0,0456	Pydc4	pyrin domain containing 4 [Source:MGI Symbol;Acc:MGI:3695276] [ENSMUST00000178186]
A_55_P2165191	1,24	4,29	0,0230	Gm7420	Mus musculus 12 days embryo spinal cord cDNA, RIKEN full-length enriched library, clone:C530019J11 product:unclassifiable, full insert sequence. [AK141442]
A_52_P1197913	1,23	11,16	0,0003	Gadd45b	Mus musculus growth arrest and DNA-damage-inducible 45 beta (Gadd45b), mRNA [NM_008655]
A_51_P495485	1,23	5,74	0,0083	Tmem55a	Mus musculus transmembrane protein 55A (Tmem55a), mRNA [NM_028264]
A_55_P2373987	1,23	3,51	0,0470	A730009E18 Rik	Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130001E07 product:unclassifiable, full insert sequence. [AK047818]
A_55_P1971006	1,23	5,44	0,0098	Urah	Mus musculus urate (5-hydroxyiso-) hydrolase (Urah), mRNA [NM_029821]
A_66_P119968	1,22	3,55	0,0454	Clec4a1	Mus musculus C-type lectin domain family 4, member a1 (Clec4a1), mRNA [NM_199311]
A_55_P2042121	1,22	10,21	0,0006	Slc25a22	Mus musculus solute carrier family 25 (mitochondrial carrier, glutamate), member 22 (Slc25a22), transcript variant 1, mRNA [NM_026646]
A_55_P2155931	1,22	3,55	0,0454	Tnfsf12Tnfsf13	Mus musculus Tnfsf12-Tnfsf13 readthrough transcript (Tnfsf12Tnfsf13), transcript variant 1, mRNA [NM_001034097]
A_55_P1957866	1,22	3,53	0,0460	Gm3161	Mus musculus RCB-0464 Meth-A cDNA, RIKEN full-length enriched library, clone:G430067017 product:unclassifiable, full insert sequence. [AK090034]
A_55_P1979377	1,22	5,29	0,0107	Slc16a7	Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 7 (Slc16a7), mRNA [NM_011391]
A_52_P88648	1,22	3,61	0,0425	Cyp24a1	Mus musculus cytochrome P450, family 24, subfamily a, polypeptide 1 (Cyp24a1), mRNA [NM_009996]
A_51_P339564	1,22	3,70	0,0392	Olfir1378	Mus musculus olfactory receptor 1378 (Olfir1378), mRNA [NM_146910]
A_52_P495869	1,22	6,22	0,0063	Mafb	Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian) (Mafb), mRNA [NM_010658]
A_51_P286488	1,22	9,64	0,0008	Ier3	Mus musculus immediate early response 3 (Ier3), mRNA [NM_133662]
A_55_P2022504	1,22	3,60	0,0433	1700019B21 Rik	Mus musculus RIKEN cDNA 1700019B21 gene (1700019B21Rik), transcript variant 1, long non-coding RNA [NR_045442]
A_55_P2009449	1,22	5,96	0,0072	Pnma2	Mus musculus paraneoplastic antigen MA2 (Pnma2), mRNA [NM_175498]
A_55_P2111172	1,22	3,72	0,0385	Mecom	Mus musculus MDS1 and EVI1 complex locus (Mecom), transcript variant 2, mRNA [NM_021442]
A_55_P2005470	1,21	3,83	0,0348	Mfap4	Mus musculus microfibrillar-associated protein 4 (Mfap4), mRNA [NM_029568]
A_55_P2122604	1,21	4,32	0,0223	Cbr2	Mus musculus carbonyl reductase 2 (Cbr2), mRNA [NM_007621]
A_52_P649224	1,21	6,19	0,0063	Sash1	Mus musculus SAM and SH3 domain containing 1 (Sash1), mRNA [NM_175155]
A_55_P2022748	1,21	5,31	0,0106	Tenm3	Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030019H23 product:odd Oz/ten-m homolog 3 (Drosophila), full insert sequence. [AK050784]
A_55_P2101074	1,21	4,98	0,0134	LOC102642191	PREDICTED: Mus musculus uncharacterized LOC102642191 (LOC102642191), ncRNA [XR_395614]
A_55_P2054989	1,20	3,92	0,0319	Tmem255b	Mus musculus transmembrane protein 255B (Tmem255b), transcript variant 1, mRNA [NM_001143671]
A_55_P2286493	1,20	4,82	0,0150	4933405E24 Rik	Mus musculus RIKEN cDNA 4933405E24 gene (4933405E24Rik), long non-coding RNA [NR_045506]
A_55_P2100290	1,20	4,50	0,0192	Adra1b	Mus musculus adrenergic receptor, alpha 1b (Adra1b), transcript variant 3, mRNA [NM_001284381]
A_51_P300618	1,20	4,83	0,0150	Crb2	Mus musculus crumbs homolog 2 (Drosophila) (Crb2), mRNA [NM_001163566]

A_55_P2185387	1,20	3,99	0,0298	Zfp428	Mus musculus zinc finger protein 428 (Zfp428), transcript variant 1, mRNA [NM_001290461]
A_55_P1982454	1,20	3,62	0,0421	Eps8	Mus musculus epidermal growth factor receptor pathway substrate 8 (Eps8), transcript variant 1, mRNA [NM_007945]
A_55_P1968028	1,20	6,04	0,0069	Tdgf1	Mus musculus teratocarcinoma-derived growth factor 1 (Tdgf1), mRNA [NM_011562]
A_55_P1969078	1,20	13,71	0,0001	Adar	Mus musculus adenosine deaminase, RNA-specific (Adar), transcript variant 2, mRNA [NM_001038587]
A_55_P2064446	1,19	3,57	0,0444	Pced1a	Mus musculus PC-esterase domain containing 1A (Pced1a), transcript variant 1, mRNA [NM_178762]
A_55_P2025248	1,19	6,90	0,0042	Mxd1	Mus musculus MAX dimerization protein 1 (Mxd1), mRNA [NM_010751]
A_55_P2076757	1,19	7,35	0,0032	Znfx1	Mus musculus zinc finger, NFX1-type containing 1 (Znfx1), transcript variant 1, mRNA [NM_001033196]
A_55_P2075237	1,19	5,63	0,0088	Ulk3	Mus musculus unc-51-like kinase 3 (Ulk3), mRNA [NM_027895]
A_51_P358256	1,19	3,53	0,0462	Nr1i3	Mus musculus nuclear receptor subfamily 1, group I, member 3 (Nr1i3), transcript variant 1, mRNA [NM_009803]
A_51_P390538	1,19	5,30	0,0106	Mpeg1	Mus musculus macrophage expressed gene 1 (Mpeg1), mRNA [NM_010821]
A_51_P460954	1,19	3,84	0,0346	Ccl6	Mus musculus chemokine (C-C motif) ligand 6 (Ccl6), mRNA [NM_009139]
A_51_P248666	1,19	7,77	0,0024	Cd274	Mus musculus CD274 antigen (Cd274), mRNA [NM_021893]
A_55_P2114938	1,19	13,59	0,0001	Irf9	Mus musculus interferon regulatory factor 9 (Irf9), transcript variant 1, mRNA [NM_001159417]
A_66_P134501	1,19	4,64	0,0171	Olfm1	Mus musculus olfactomedin 1 (Olfm1), transcript variant 1, mRNA [NM_019498]
A_55_P1959305	1,18	6,14	0,0065	Rbm47	Mus musculus RNA binding motif protein 47 (Rbm47), transcript variant 1, mRNA [NM_178446]
A_51_P472003	1,18	4,84	0,0148	Ttc22	Mus musculus tetratricopeptide repeat domain 22 (Ttc22), mRNA [NM_177667]
A_51_P259296	1,18	6,28	0,0061	Lpl	Mus musculus lipoprotein lipase (Lpl), mRNA [NM_008509]
A_55_P2176838	1,18	7,97	0,0022	Mitf	Mus musculus microphthalmia-associated transcription factor (Mitf), transcript variant 1, mRNA [NM_001113198]
A_55_P2060966	1,18	12,84	0,0002	Mov10	Mus musculus Moloney leukemia virus 10 (Mov10), transcript variant 1, mRNA [NM_001163440]
A_55_P2067583	1,18	4,89	0,0144	Cd68	CD68 antigen [Source:MGI Symbol;Acc:MGI:88342] [ENSMUST00000108654]
A_51_P261517	1,18	6,69	0,0048	Tyrbp	Mus musculus TYRO protein tyrosine kinase binding protein (Tyrbp), mRNA [NM_011662]
A_55_P2013843	1,17	4,35	0,0218	Gm2016	Mus musculus predicted gene 2016 (Gm2016), mRNA [NM_001122662]
A_55_P2174743	1,17	5,66	0,0086	Akap7	Mus musculus A kinase (PRKA) anchor protein 7 (Akap7), mRNA [NM_018747]
A_55_P2132024	1,17	4,15	0,0258	Tekt1	Mus musculus tektin 1 (Tekt1), transcript variant 1, mRNA [NM_001282006]
A_55_P2016367	1,17	4,33	0,0222	Rhox3f	Mus musculus reproductive homeobox 3F (Rhox3f), mRNA [NM_001040089]
A_55_P2134092	1,17	5,95	0,0072	Brsk1	Mus musculus BR serine/threonine kinase 1 (Brsk1), transcript variant 1, mRNA [NM_001003920]
A_51_P192800	1,17	5,84	0,0077	Grn	Mus musculus granulin (Grn), mRNA [NM_008175]
A_51_P405167	1,17	6,64	0,0049	Maf	Mus musculus avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog (Maf), mRNA [NM_001025577]
A_55_P2020050	1,17	6,75	0,0047	672047519Rik	Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810462E17 product:unclassifiable, full insert sequence. [AK013372]
A_52_P221776	1,17	4,50	0,0193	Kif12	Mus musculus kinesin family member 12 (Kif12), mRNA [NM_010616]
A_66_P130646	1,17	7,05	0,0038	Hist1h4h	Mus musculus histone cluster 1, H4h (Hist1h4h), mRNA [NM_153173]
A_55_P2071513	1,16	4,05	0,0283	1700066C05Rik	PREDICTED: Mus musculus RIKEN cDNA 1700066C05 gene (1700066C05Rik), mRNA [XM_001473318]
A_51_P463846	1,16	4,01	0,0292	Gbp7	Mus musculus guanylate binding protein 7 (Gbp7), transcript variant 1, mRNA [NM_145545]
A_51_P519108	1,16	3,70	0,0391	Dzank1	Mus musculus double zinc ribbon and ankyrin repeat domains 1 (Dzank1), mRNA [NM_172859]
A_66_P131008	1,16	3,99	0,0298	Trpm5	Mus musculus transient receptor potential cation channel, subfamily M, member 5 (Trpm5), mRNA [NM_020277]
A_52_P464228	1,16	4,01	0,0292	1700009N14Rik	Mus musculus RIKEN cDNA 1700009N14 gene (1700009N14Rik), mRNA [NM_001081095]
A_55_P1981322	1,16	4,33	0,0222	Grhl2	Mus musculus grainyhead-like 2 (Drosophila) (Grhl2), mRNA [NM_026496]
A_66_P139618	1,16	5,35	0,0103	Stfa2	Mus musculus stefin A2 (Stfa2), mRNA [NM_001082545]
A_55_P2126820	1,16	3,68	0,0401	Gm5800	Mus musculus predicted gene 5800 (Gm5800), mRNA [NM_001034102]
A_51_P444290	1,16	4,29	0,0229	Slamf8	Mus musculus SLAM family member 8 (Slamf8), mRNA [NM_029084]
A_66_P126428	1,15	5,17	0,0116	Celf6	Mus musculus CUGBP, Elav-like family member 6 (Celf6), mRNA [NM_175235]
A_51_P137419	1,15	8,26	0,0018	Cst7	Mus musculus cystatin F (leukocystatin) (Cst7), mRNA [NM_009977]
A_55_P1983380	1,15	7,17	0,0035	Gm2022	Mus musculus predicted pseudogene 2022 (Gm2022), mRNA [NM_001177574]
A_55_P2135200	1,15	10,80	0,0004	Slfn10-ps	Mus musculus schlafen 10, pseudogene (Slfn10-ps), transcript variant 1, non-coding RNA [NR_073523]
A_55_P2008297	1,15	3,78	0,0366	Cd300a	Mus musculus CD300A antigen (Cd300a), mRNA [NM_170758]
A_55_P2152437	1,15	4,90	0,0143	Mitf	Mus musculus microphthalmia-associated transcription factor (Mitf), transcript variant 1, mRNA [NM_001113198]
A_51_P156849	1,15	5,14	0,0119	Paqr3	Mus musculus progesterin and adipoQ receptor family member III (Paqr3), mRNA [NM_198422]



A_55_P2088113	1,14	3,71	0,0388	Gm16287	Mus musculus predicted gene 16287 (Gm16287), long non-coding RNA [NR_033543]
A_55_P2142226	1,14	5,82	0,0078	Serpina3f	Mus musculus serine (or cysteine) peptidase inhibitor, clade A, member 3F (Serpina3f), transcript variant 1, mRNA [NM_001168294]
A_55_P2108012	1,14	3,57	0,0442	Fam78b	Mus musculus family with sequence similarity 78, member B (Fam78b), transcript variant 1, mRNA [NM_001160262]
A_52_P431615	1,14	6,41	0,0056	Gm1966	Mus musculus predicted gene 1966 (Gm1966), transcript variant 5, mRNA [NM_001277183]
A_55_P2184567	1,14	3,46	0,0495	Gm3161	Mus musculus RCB-0464 Meth-A cDNA, RIKEN full-length enriched library, clone:G430067017 product:unclassifiable, full insert sequence. [AK090034]
A_55_P2129407	1,14	6,02	0,0070	4932431P20 Rik	PREDICTED: Mus musculus RIKEN cDNA 4932431P20 gene (4932431P20Rik), misc RNA [XR_391309]
A_55_P2030174	1,14	4,82	0,0151	Ifna1	Mus musculus interferon alpha 1 (Ifna1), mRNA [NM_010502]
A_66_P114784	1,14	3,82	0,0353	Pla2g7	Mus musculus phospholipase A2, group VII (platelet-activating factor acetylhydrolase, plasma) (Pla2g7), mRNA [NM_013737]
A_55_P2000628	1,14	4,54	0,0186	Dusp7	Mus musculus dual specificity phosphatase 7, mRNA (cDNA clone IMAGE:4953151), partial cds. [BC025048]
A_51_P232371	1,14	5,31	0,0106	Stab1	Mus musculus stabilin 1 (Stab1), mRNA [NM_138672]
A_55_P1972381	1,14	3,54	0,0455	Gjb4	Mus musculus gap junction protein, beta 4 (Gjb4), mRNA [NM_008127]
A_55_P2056719	1,14	8,35	0,0017	AF067061	Mus musculus cDNA sequence AF067061 (AF067061), mRNA [NM_199060]
A_55_P2277014	1,14	6,15	0,0065	AA522020	vh78e12.r1 Knowles Solter mouse E6 5d whole embryo Mus musculus cDNA clone IMAGE:893134 3'. [AA522020]
A_52_P354682	1,14	6,18	0,0064	Elovl7	Mus musculus ELOVL family member 7, elongation of long chain fatty acids (yeast) (Elovl7), mRNA [NM_029001]
A_55_P2025328	1,13	5,86	0,0076	Tacr2	Mus musculus tachykinin receptor 2 (Tacr2), mRNA [NM_009314]
A_66_P103398	1,13	7,34	0,0032	Ogfr11	Mus musculus opioid growth factor receptor-like 1 (Ogfr11), mRNA [NM_001081079]
A_66_P130911	1,13	4,74	0,0159	Proser2	Mus musculus 15 days embryo head cDNA, RIKEN full-length enriched library, clone:4022436C10 product:hypothetical Proline-rich region profile containing protein, full insert sequence. [AK132370]
A_66_P107379	1,13	3,67	0,0405	Mdk	Mus musculus midkine (Mdk), transcript variant 1, mRNA [NM_010784]
A_55_P2179587	1,13	3,48	0,0484	Celsr3	Mus musculus cadherin, EGF LAG seven-pass G-type receptor 3 (flamingo homolog, Drosophila) (Celsr3), mRNA [NM_080437]
A_55_P2276224	1,13	6,54	0,0053	9330175E14 Rik	Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:9330175E14 product:HYPOTHETICAL 4.5 KDA PROTEIN homolog [Homo sapiens], full insert sequence. [AK034303]
A_66_P112862	1,13	4,28	0,0232	Gm17821	Mus musculus predicted gene, 17821 (Gm17821), non-coding RNA [NR_033146]
A_55_P1958400	1,13	6,89	0,0042	LOC102640804	PREDICTED: Mus musculus uncharacterized LOC102640804 (LOC102640804), mRNA [XM_006517809]
A_55_P2084263	1,13	4,27	0,0234	Macrod2os2	Mus musculus adult inner ear cDNA, RIKEN full-length enriched library, clone:F930037H19 product:hypothetical protein, full insert sequence. [AK158168]
A_55_P2051849	1,12	6,13	0,0065	Snap25	Mus musculus synaptosomal-associated protein 25 (Snap25), transcript variant 2, mRNA [NM_001291056]
A_55_P2035018	1,12	6,41	0,0056	Clec4n	Mus musculus C-type lectin domain family 4, member n (Clec4n), transcript variant 1, mRNA [NM_020001]
A_55_P2011390	1,12	3,99	0,0298	Tead1	Mus musculus TEA domain family member 1 (Tead1), transcript variant 1, mRNA [NM_001166584]
A_55_P2012201	1,12	5,34	0,0105	App	Mus musculus amyloid beta (A4) precursor protein (App), transcript variant 1, mRNA [NM_001198823]
A_55_P1999511	1,12	4,36	0,0216	Aurkc	Mus musculus aurora kinase C (Aurkc), transcript variant 2, mRNA [NM_001080966]
A_51_P497756	1,12	5,29	0,0106	Olfir539	Mus musculus olfactory receptor 539 (Olfir539), mRNA [NM_146961]
A_55_P2149763	1,12	12,72	0,0002	Tapbp	Mus musculus TAP binding protein (Tapbp), transcript variant 1, mRNA [NM_001025313]
A_55_P2005042	1,12	3,94	0,0313	1700091H14 Rik	Mus musculus RIKEN cDNA 1700091H14 gene (1700091H14Rik), long non-coding RNA [NR_073362]
A_55_P1978216	1,12	6,00	0,0071	AF251705	Mus musculus cDNA sequence AF251705 (AF251705), mRNA [NM_134158]
A_55_P2051179	1,11	4,71	0,0162	1700108F19 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930417C10 product:unclassifiable, full insert sequence. [AK076702]
A_55_P2048418	1,11	9,00	0,0011	Mdfic	Mus musculus MyoD family inhibitor domain containing (Mdfic), mRNA [NM_175088]
A_52_P355084	1,11	4,44	0,0202	Metrl	Mus musculus meteorin, glial cell differentiation regulator-like (Metrl), mRNA [NM_144797]
A_66_P132062	1,11	3,71	0,0389	Gm5608	Mus musculus Leydig cells CRL-2065 MLTC-1 cDNA, RIKEN full-length enriched library, clone:G430041C19 product:unclassifiable, full insert sequence. [AK089977]
A_52_P408025	1,11	4,02	0,0289	Mppd2	Mus musculus metallophosphoesterase domain containing 2 (Mppd2), transcript variant 1, mRNA [NM_001143683]
A_55_P2096917	1,11	6,71	0,0047	Mreg	Mus musculus melanoregulin (Mreg), mRNA [NM_001005423]
A_55_P2174541	1,11	3,75	0,0377	Dtx3l	Mus musculus deltex 3-like (Drosophila) (Dtx3l), mRNA [NM_001013371]
A_55_P2098591	1,11	4,98	0,0134	2610318N02 Rik	Mus musculus RIKEN cDNA 2610318N02 gene (2610318N02Rik), mRNA [NM_183287]
A_55_P2064652	1,11	4,29	0,0229	Trim12c	Mus musculus tripartite motif-containing 12C (Trim12c), transcript variant 1, mRNA [NM_001146007]
A_55_P1977934	1,11	6,01	0,0070	Itgam	Mus musculus integrin alpha M (Itgam), transcript variant 1, mRNA [NM_001082960]
A_52_P463977	1,11	7,45	0,0030	Tmem140	Mus musculus transmembrane protein 140 (Tmem140), mRNA [NM_197986]

A_55_P1984243	1,10	4,81	0,0152	Naip2	Mus musculus NLR family, apoptosis inhibitory protein 2 (Naip2), transcript variant 1, mRNA [NM_010872]
A_55_P2045928	1,10	5,57	0,0090	Btnl10	butyrophilin-like 10 [Source:MGI Symbol;Acc:MGI:2182073] [ENSIMUST00000069941]
A_55_P2111519	1,10	3,96	0,0307	9230113P08 Rik	RIKEN cDNA 9230113P08 gene [Source:MGI Symbol;Acc:MGI:1925158] [ENSIMUST00000176049]
A_55_P2108761	1,10	5,24	0,0110	Sdad1	Mus musculus SDA1 domain containing 1 (Sdad1), mRNA [NM_172713]
A_55_P2414619	1,10	3,51	0,0473	Cdh6	PREDICTED: Mus musculus cadherin 6 (Cdh6), transcript variant X1, mRNA [XM_006520017]
A_55_P2140031	1,10	6,55	0,0052	Fam129b	Mus musculus family with sequence similarity 129, member B (Fam129b), mRNA [NM_146119]
A_52_P257502	1,10	6,38	0,0057	Igfbp4	Mus musculus insulin-like growth factor binding protein 4 (Igfbp4), mRNA [NM_010517]
A_55_P2166049	1,10	3,49	0,0479	Vmn1r65	Mus musculus vomeronasal 1 receptor 65 (Vmn1r65), mRNA [NM_030738]
A_55_P1996862	1,09	11,88	0,0002	Psme2b	Mus musculus protease (prosome, macropain) activator subunit 2B (Psme2b), mRNA [NM_001281472]
A_51_P362066	1,09	4,07	0,0276	Chil1	Mus musculus chitinase-like 1 (Chil1), mRNA [NM_007695]
A_55_P2110758	1,09	3,99	0,0300	B430306N03 Rik	Mus musculus RIKEN cDNA B430306N03 gene (B430306N03Rik), mRNA [NM_177083]
A_51_P203955	1,09	12,82	0,0002	Gbp2	Mus musculus guanylate binding protein 2 (Gbp2), mRNA [NM_010260]
A_51_P200667	1,09	5,02	0,0130	Clmn	Mus musculus calmin (Clmn), transcript variant 1, mRNA [NM_053155]
A_55_P2266342	1,09	3,93	0,0316	9430078K24 Rik	PREDICTED: Mus musculus RIKEN cDNA 9430078K24 gene (9430078K24Rik), transcript variant X6, ncRNA [XR_381735]
A_55_P2006950	1,09	4,63	0,0172	Usp8	Mus musculus ubiquitin specific peptidase 8 (Usp8), transcript variant 1, mRNA [NM_001252580]
A_55_P1977628	1,09	3,59	0,0436	Pappa	Mus musculus pregnancy-associated plasma protein A (Pappa), mRNA [NM_021362]
A_55_P2042183	1,09	5,19	0,0114	Bzw2	PREDICTED: Mus musculus basic leucine zipper and W2 domains 2 (Bzw2), transcript variant X3, mRNA [XM_006515166]
A_55_P2004806	1,09	6,38	0,0057	Hexim2	Mus musculus hexamethylene bis-acetamide inducible 2 (Hexim2), transcript variant 1, mRNA [NM_027658]
A_55_P2138591	1,09	3,79	0,0363	Cyb5rl	cytochrome b5 reductase-like [Source:MGI Symbol;Acc:MGI:1919657] [ENSIMUST00000126207]
A_51_P465350	1,08	5,01	0,0130	Ly86	Mus musculus lymphocyte antigen 86 (Ly86), mRNA [NM_010745]
A_55_P2141729	1,08	5,30	0,0106	Snrnp27	small nuclear ribonucleoprotein 27 (U4/U6.U5) [Source:MGI Symbol;Acc:MGI:1913868] [ENSIMUST00000113683]
A_55_P2000224	1,08	8,33	0,0017	Cd63	Mus musculus CD63 antigen (Cd63), transcript variant 3, mRNA [NM_001282966]
A_55_P2047155	1,08	3,50	0,0474	Meis2	Mus musculus Meis homeobox 2 (Meis2), transcript variant 5, mRNA [NM_001159569]
A_55_P2131979	1,08	5,90	0,0074	36951	Mus musculus membrane-associated ring finger (C3HC4) 1 (March1), transcript variant 3, mRNA [NM_175188]
A_55_P2005903	1,08	6,27	0,0061	Lhx6	Mus musculus LIM homeobox protein 6 (Lhx6), transcript variant 1, mRNA [NM_008500]
A_55_P2094474	1,08	3,49	0,0480	Zeb2os	Mus musculus zinc finger E-box binding homeobox 2, opposite strand (Zeb2os), transcript variant 1, long non-coding RNA [NR_110572]
A_52_P599264	1,08	8,14	0,0019	Mdfic	Mus musculus MyoD family inhibitor domain containing (Mdfic), mRNA [NM_175088]
A_55_P2320263	1,08	6,62	0,0050	Caln1	PREDICTED: Mus musculus calneuron 1 (Caln1), transcript variant X4, mRNA [XM_006504369]
A_55_P2016691	1,07	3,97	0,0302	1700039I01 Rik	PREDICTED: Mus musculus RIKEN cDNA 1700039I01 gene (1700039I01Rik), transcript variant X1, ncRNA [XR_373459]
A_51_P158073	1,07	8,74	0,0013	A230050P20 Rik	Mus musculus RIKEN cDNA A230050P20 gene (A230050P20Rik), mRNA [NM_175687]
A_55_P2026233	1,07	10,51	0,0005	Uba7	Mus musculus ubiquitin-like modifier activating enzyme 7 (Uba7), mRNA [NM_023738]
A_55_P1984347	1,07	3,69	0,0397	Rhox3h	Mus musculus reproductive homeobox 3H (Rhox3h), mRNA [NM_001114157]
A_55_P1959164	1,07	4,42	0,0204	Gm10324	Mus musculus predicted gene 10324 (Gm10324), mRNA [NM_001177832]
A_55_P2043782	1,07	5,46	0,0097	Trpm1	Mus musculus transient receptor potential cation channel, subfamily M, member 1 (Trpm1), transcript variant 2, mRNA [NM_001039104]
A_55_P1988872	1,07	5,74	0,0083	Bcl11a	Mus musculus B cell CLL/lymphoma 11A (zinc finger protein) (Bcl11a), transcript variant 4, mRNA [NM_001242934]
A_55_P2287260	1,07	6,47	0,0055	Snap23	Mus musculus synaptosomal-associated protein 23 (Snap23), transcript variant 1, mRNA [NM_001177792]
A_55_P2162815	1,07	5,07	0,0125	Fbxo31	Mus musculus F-box protein 31 (Fbxo31), mRNA [NM_133765]
A_51_P193146	1,07	3,66	0,0407	Ms4a6c	Mus musculus membrane-spanning 4-domains, subfamily A, member 6C (Ms4a6c), transcript variant 1, mRNA [NM_028595]
A_55_P2091616	1,06	5,67	0,0086	Krt222	Mus musculus keratin 222 (Krt222), mRNA [NM_172946]
A_55_P2010586	1,06	4,26	0,0234	Gm6252	Mus musculus 18 days pregnant adult female placenta and extra embryonic tissue cDNA, RIKEN full-length enriched library, clone:3830429B21 product:ribosomal protein S7, full insert sequence. [AK132285]
A_55_P2100194	1,06	5,53	0,0092	LOC102634459	PREDICTED: Mus musculus uncharacterized LOC102634459 (LOC102634459), ncRNA [XR_387206]
A_55_P2133195	1,06	7,65	0,0027	Gm4951	Mus musculus predicted gene 4951 (Gm4951), mRNA [NM_001033767]
A_55_P1988975	1,06	4,66	0,0169	Ms4a4b	membrane-spanning 4-domains, subfamily A, member 4B [Source:MGI Symbol;Acc:MGI:1913083] [ENSIMUST00000142135]
A_55_P2006008	1,06	4,72	0,0162	Serpib1a	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 1a (Serpib1a), mRNA [NM_025429]
A_51_P481482	1,06	3,63	0,0419	Dram1	Mus musculus DNA-damage regulated autophagy modulator 1 (Dram1), mRNA [NM_027878]

A_55_P1988774	1,06	5,61	0,0089	Slc17a5	Mus musculus solute carrier family 17 (anion/sugar transporter), member 5 (Slc17a5), transcript variant 1, mRNA [NM_172773]
A_55_P2130970	1,06	11,21	0,0003	Parp10	Mus musculus poly (ADP-ribose) polymerase family, member 10 (Parp10), transcript variant 2, mRNA [NM_001163576]
A_55_P1982747	1,06	6,62	0,0050	Slc8a3	Mus musculus solute carrier family 8 (sodium/calcium exchanger), member 3 (Slc8a3), transcript variant 2, mRNA [NM_080440]
A_55_P1983668	1,06	3,48	0,0484	Gm6377	Mus musculus predicted gene 6377 (Gm6377), mRNA [NM_001037917]
A_66_P105585	1,06	3,47	0,0487	Slfn8	Mus musculus schlafen 8 (Slfn8), transcript variant 2, mRNA [NM_001167743]
A_51_P428134	1,06	4,45	0,0199	Lrig3	Mus musculus leucine-rich repeats and immunoglobulin-like domains 3 (Lrig3), mRNA [NM_177152]
A_55_P2268221	1,06	4,10	0,0270	Arhgap10	Mus musculus Rho GTPase activating protein 10 (Arhgap10), mRNA [NM_030113]
A_55_P2013840	1,06	3,71	0,0388	Krt42	Mus musculus keratin 42 (Krt42), mRNA [NM_212483]
A_55_P1954221	1,05	6,68	0,0048	Emp1	Mus musculus epithelial membrane protein 1 (Emp1), transcript variant 3, mRNA [NM_001288628]
A_55_P2169514	1,05	5,69	0,0085	Fgf23	Mus musculus fibroblast growth factor 23 (Fgf23), mRNA [NM_022657]
A_52_P441070	1,05	9,68	0,0008	Apob	Mus musculus apolipoprotein B (Apob), mRNA [NM_009693]
A_55_P1987434	1,05	4,05	0,0282	Fam196a	Mus musculus adult male cortex cDNA, RIKEN full-length enriched library, clone:B530004C07 product:hypothetical protein, full insert sequence. [AK140373]
A_55_P2031125	1,05	6,50	0,0054	Ube2l6	Mus musculus ubiquitin-conjugating enzyme E2L 6 (Ube2l6), mRNA [NM_019949]
A_55_P2097176	1,05	5,24	0,0110	Idua	Mus musculus iduronidase, alpha-L- (Idua), transcript variant 1, mRNA [NM_008325]
A_51_P455807	1,05	7,82	0,0024	Ehd4	Mus musculus EH-domain containing 4 (Ehd4), mRNA [NM_133838]
A_55_P2184013	1,04	7,27	0,0033	C130026121 Rik	Mus musculus RIKEN cDNA C130026121 gene (C130026121Rik), transcript variant 1, mRNA [NM_175219]
A_55_P1983959	1,04	6,02	0,0070	Ftl1	Mus musculus ferritin light chain 1 (Ftl1), mRNA [NM_010240]
A_55_P2050513	1,04	3,87	0,0336	Pgbd1	Mus musculus piggyBac transposable element derived 1 (Pgbd1), transcript variant 1, mRNA [NM_001162919]
A_55_P2137611	1,04	10,26	0,0006	Irgm2	Mus musculus immunity-related GTPase family M member 2 (Irgm2), mRNA [NM_019440]
A_55_P2025443	1,04	5,85	0,0077	Oprm1	Mus musculus opioid receptor, mu 1 (Oprm1), mRNA [NM_001039652]
A_55_P2001023	1,04	5,62	0,0088	Lrrc19	Mus musculus leucine rich repeat containing 19 (Lrrc19), mRNA [NM_175305]
A_55_P2045040	1,04	4,18	0,0252	F7	Mus musculus coagulation factor VII (F7), mRNA [NM_010172]
A_55_P2301941	1,04	5,78	0,0081	A530030E21 Rik	Mus musculus adult male aorta and vein cDNA, RIKEN full-length enriched library, clone:A530030E21 product:unclassifiable, full insert sequence. [AK079970]
A_55_P2120388	1,04	6,44	0,0055	Skint7	Mus musculus selection and upkeep of intraepithelial T cells 7 (Skint7), transcript variant 2, mRNA [NM_177818]
A_51_P432403	1,04	3,64	0,0416	Fgfr2	Mus musculus fibroblast growth factor receptor 2 (Fgfr2), transcript variant 1, mRNA [NM_010207]
A_55_P1988168	1,04	6,25	0,0061	BC053749	Mus musculus cDNA sequence BC053749 (BC053749), mRNA [NM_183321]
A_55_P2151609	1,04	6,92	0,0042	Sorl1	Mus musculus sortilin-related receptor, LDLR class A repeats-containing (Sorl1), mRNA [NM_011436]
A_55_P2131274	1,04	6,32	0,0059	Zfp663	Mus musculus zinc finger protein 663 (Zfp663), mRNA [NM_001005425]
A_55_P2086455	1,04	3,76	0,0372	Wscd2	WSC domain containing 2 [Source:MGI Symbol;Acc:MGI:2445030] [ENSMUST00000181650]
A_55_P2185890	1,03	5,62	0,0088	Cfh	Mus musculus 18-day embryo whole body cDNA, RIKEN full-length enriched library, clone:1110061K10 product:complement component factor h, full insert sequence. [AK075670]
A_55_P2074281	1,03	3,92	0,0319	Nr2f1	Mus musculus nuclear receptor subfamily 2, group F, member 1 (Nr2f1), mRNA [NM_010151]
A_55_P1989981	1,03	6,14	0,0065	Fam129b	Mus musculus family with sequence similarity 129, member B (Fam129b), mRNA [NM_146119]
A_55_P1962344	1,03	9,85	0,0007	Trim21	Mus musculus tripartite motif-containing 21 (Trim21), transcript variant 1, mRNA [NM_009277]
A_55_P2027900	1,03	3,83	0,0347	Gabra2	PREDICTED: Mus musculus gamma-aminobutyric acid (GABA) A receptor, subunit alpha 2 (Gabra2), transcript variant X1, mRNA [XM_006503733]
A_52_P527800	1,03	6,44	0,0055	Emilin2	Mus musculus elastin microfibril interfacer 2 (Emilin2), mRNA [NM_145158]
A_55_P2234361	1,03	4,72	0,0161	Rnf150	Mus musculus ring finger protein 150 (Rnf150), mRNA [NM_177378]
A_55_P2066553	1,03	5,29	0,0106	Oacyl	Mus musculus O-acyltransferase like (Oacyl), mRNA [NM_177028]
A_55_P2350067	1,03	4,65	0,0170	A530072M11 Rik	Mus musculus RIKEN cDNA gene A530072M11 (A530072M11Rik), long non-coding RNA [NR_045765]
A_55_P2033445	1,03	4,34	0,0220	Tnfrsf1b	Mus musculus tumor necrosis factor receptor superfamily, member 1b (Tnfrsf1b), mRNA [NM_011610]
A_51_P312035	1,03	3,45	0,0497	Cd300e	Mus musculus CD300e antigen (Cd300e), mRNA [NM_172050]
A_51_P140321	1,02	6,03	0,0070	Mocos	Mus musculus molybdenum cofactor sulfuryase (Mocos), mRNA [NM_026779]
A_55_P2019009	1,02	6,51	0,0053	Ncoa7	Mus musculus nuclear receptor coactivator 7 (Ncoa7), transcript variant 1, mRNA [NM_172495]
A_52_P424231	1,02	4,00	0,0294	Adams16	Mus musculus a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 16 (Adams16), mRNA [NM_172053]
A_55_P2172678	1,02	3,61	0,0427	Tm4sf19	Mus musculus transmembrane 4 L six family member 19 (Tm4sf19), mRNA [NM_001160402]
A_55_P2206269	1,02	4,55	0,0186	9130403123 Rik	Mus musculus 12 days embryo embryonic body between diaphragm region and neck cDNA, RIKEN full-length enriched

					library, clone:9430045F20 product:unclassifiable, full insert sequence. [AK034835]
A_55_P2062513	1,02	6,58	0,0052	Pdzn3	Mus musculus PDZ domain containing RING finger 3 (Pdzn3), mRNA [NM_018884]
A_55_P2100222	1,02	5,78	0,0081	Gm4425	PREDICTED: Mus musculus predicted gene 4425 (Gm4425), transcript variant 1, mRNA [XM_001480563]
A_55_P1981959	1,01	9,81	0,0008	Trafd1	Mus musculus TRAF type zinc finger domain containing 1 (Trafd1), transcript variant 1, mRNA [NM_001163470]
A_51_P113403	1,01	6,35	0,0058	Slc26a11	Mus musculus solute carrier family 26, member 11 (Slc26a11), mRNA [NM_178743]
A_66_P134474	1,01	3,76	0,0372	Ang3	Mus musculus angiogenin, ribonuclease A family, member 3 (Ang3), mRNA [NM_001123394]
A_55_P2058881	1,01	3,87	0,0334	Gm10560	Mus musculus adult male brain cDNA, RIKEN full-length enriched library, clone:3526401B15 product:hypothetical protein, full insert sequence. [AK132218]
A_55_P2099560	1,01	8,38	0,0017	Apoec1	Mus musculus apolipoprotein B mRNA editing enzyme, catalytic polypeptide 1 (Apoec1), transcript variant 1, mRNA [NM_031159]
A_55_P2040600	1,01	3,95	0,0309	Exd1	Mus musculus exonuclease 3'-5' domain containing 1 (Exd1), mRNA [NM_172857]
A_55_P2035757	1,01	3,71	0,0388	Gm8884	Mus musculus predicted gene 8884 (Gm8884), long non-coding RNA [NR_026561]
A_55_P2099105	1,01	5,12	0,0121	Rhobtb1	Mus musculus Rho-related BTB domain containing 1 (Rhobtb1), transcript variant 4, mRNA [NM_001252638]
A_55_P1998631	1,01	6,21	0,0063	Capg	Mus musculus capping protein (actin filament), gelsolin-like (Capg), transcript variant 2, mRNA [NM_001042534]
A_51_P114910	1,01	9,23	0,0010	Cstb	Mus musculus cystatin B (Cstb), mRNA [NM_007793]
A_55_P2022139	1,01	5,86	0,0076	Pura	Mus musculus purine rich element binding protein A (Pura), mRNA [NM_008989]
A_55_P1984043	1,01	6,03	0,0070	Pdcd4	Mus musculus programmed cell death 4 (Pdcd4), transcript variant 1, mRNA [NM_011050]
A_55_P2143494	1,00	3,76	0,0373	Doc2b	Mus musculus double C2, beta (Doc2b), mRNA [NM_007873]
A_51_P430766	1,00	3,58	0,0441	Il10	Mus musculus interleukin 10 (Il10), mRNA [NM_010548]
A_52_P466090	1,00	5,62	0,0088	Samhd1	Mus musculus SAM domain and HD domain, 1 (Samhd1), transcript variant 1, mRNA [NM_018851]
A_55_P2007088	1,00	4,91	0,0141	Rnf128	Mus musculus ring finger protein 128 (Rnf128), transcript variant 1, mRNA [NM_023270]
A_55_P2370410	1,00	3,51	0,0473	C79246	C79246 Mouse 3.5-dpc blastocyst cDNA Mus musculus cDNA clone J0063B08 3' similar to Genomic sequence from Mouse 4; HTGS phase 3. [C79246]
A_55_P2006385	1,00	3,53	0,0461	Defb28	Mus musculus defensin beta 28 (Defb28), mRNA [NM_001037502]
A_55_P2030383	1,00	8,52	0,0015	Frmd4a	Mus musculus FERM domain containing 4A (Frmd4a), transcript variant 2, mRNA [NM_001177843]
A_55_P2410304	1,00	9,54	0,0009	ligp1	Mus musculus interferon inducible GTPase 1 (ligp1), transcript variant 2, mRNA [NM_001146275]
A_55_P2052759	1,00	6,24	0,0062	Scd3	Mus musculus stearyl-coenzyme A desaturase 3 (Scd3), mRNA [NM_024450]
A_55_P2133248	1,00	5,11	0,0122	Gm8995	PREDICTED: Mus musculus predicted gene 8995 (Gm8995), misc_RNA [XR_378400]
A_52_P161488	1,00	6,71	0,0047	Clec4e	Mus musculus C-type lectin domain family 4, member e (Clec4e), mRNA [NM_019948]
A_55_P2045765	0,99	5,32	0,0106	Rnf224	Mus musculus ring finger protein 224 (Rnf224), mRNA [NM_001033410]
A_51_P144349	0,99	4,82	0,0150	Dtx4	Mus musculus dxtex 4 homolog (Drosophila) (Dtx4), mRNA [NM_172442]
A_55_P2102155	0,99	4,77	0,0155	Rgs20	Mus musculus regulator of G-protein signaling 20 (Rgs20), transcript variant 1, mRNA [NM_001177795]
A_55_P2131153	0,99	5,74	0,0083	Smarcc1	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1 (Smarcc1), mRNA [NM_009211]
A_55_P1981200	0,99	3,47	0,0489	Grm1	Mus musculus glutamate receptor, metabotropic 1 (Grm1), transcript variant 2, mRNA [NM_001114333]
A_55_P2025078	0,99	5,78	0,0081	Csf1r	Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA [NM_001037859]
A_51_P194853	0,99	3,98	0,0300	Sec14l4	Mus musculus SEC14-like 4 (S. cerevisiae) (Sec14l4), mRNA [NM_146013]
A_55_P2372325	0,99	3,54	0,0457	Zim3	Mus musculus zinc finger, imprinted 3 (Zim3), antisense RNA [NR_036631]
A_55_P2063301	0,99	3,59	0,0435	Gm4763	PREDICTED: Mus musculus predicted gene 4763 (Gm4763), transcript variant X2, mRNA [XM_006539711]
A_55_P1953356	0,99	4,22	0,0241	Triobp	Mus musculus TRIO and F-actin binding protein (Triobp), transcript variant 1, mRNA [NM_001024716]
A_55_P2059606	0,99	6,07	0,0068	Stat2	Mus musculus signal transducer and activator of transcription 2 (Stat2), mRNA [NM_019963]
A_66_P128586	0,98	4,98	0,0134	Cwc22	Mus musculus CWC22 spliceosome-associated protein homolog (S. cerevisiae) (Cwc22), transcript variant 1, mRNA [NM_030560]
A_55_P2097478	0,98	3,82	0,0351	Gda	Mus musculus guanine deaminase (Gda), mRNA [NM_010266]
A_55_P2064025	0,98	4,35	0,0218	LOC102640790	PREDICTED: Mus musculus uncharacterized LOC102640790 (LOC102640790), ncRNA [XR_386540]
A_55_P2115696	0,98	4,16	0,0254	5930422012 Rik	Mus musculus 13 days embryo forelimb cDNA, RIKEN full-length enriched library, clone:5930422012 product:unclassifiable, full insert sequence. [AK031179]
A_52_P230688	0,98	4,61	0,0175	Rep15	Mus musculus RAB15 effector protein (Rep15), mRNA [NM_025620]
A_55_P2149288	0,98	5,13	0,0120	Cmya5	Mus musculus cardiomyopathy associated 5 (Cmya5), mRNA [NM_023821]
A_55_P2154943	0,98	3,75	0,0376	LOC102633020	PREDICTED: Mus musculus uncharacterized LOC102633020 (LOC102633020), ncRNA [XR_382000]
A_55_P2001218	0,98	4,45	0,0200	Cd80	Mus musculus CD80 antigen (Cd80), mRNA [NM_009855]

A_51_P256202	0,98	7,60	0,0027	Ctsz	Mus musculus cathepsin Z (Ctsz), mRNA [NM_022325]
A_55_P2393734	0,97	6,69	0,0048	4933421H12 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933421H12 product:unclassifiable, full insert sequence. [AK016863]
A_51_P413539	0,97	7,23	0,0034	Nek6	Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 6 (Nek6), transcript variant 2, mRNA [NM_021606]
A_55_P2094713	0,97	4,82	0,0150	Gm4736	Mus musculus predicted gene 4736 (Gm4736), mRNA [NM_053251]
A_55_P2268790	0,97	3,52	0,0467	4930445G23 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930445G23 product:unclassifiable, full insert sequence. [AK015390]
A_51_P112355	0,97	10,31	0,0006	Igtp	Mus musculus interferon gamma induced GTPase (Igtp), mRNA [NM_018738]
A_55_P2063166	0,97	5,74	0,0083	Ogfod1	Mus musculus 2-oxoglutarate and iron-dependent oxygenase domain containing 1 (Ogfod1), transcript variant 1, mRNA [NM_177767]
A_55_P2319468	0,97	5,44	0,0098	9430076C15 Rik	Mus musculus RIKEN cDNA 9430076C15 gene (9430076C15Rik), long non-coding RNA [NR_015553]
A_66_P121446	0,97	4,24	0,0238	Gm7969	PREDICTED: Mus musculus predicted gene 7969 (Gm7969), mRNA [XM_982175]
A_55_P2107775	0,97	7,89	0,0023	Apol9a	Mus musculus apolipoprotein L 9a (Apol9a), transcript variant 1, mRNA [NM_173786]
A_55_P2095727	0,97	9,59	0,0009	Pml	Mus musculus promyelocytic leukemia (Pml), transcript variant 2, mRNA [NM_178087]
A_55_P2121484	0,97	4,40	0,0208	Smo	Mus musculus smoothened homolog (Drosophila) (Smo), mRNA [NM_176996]
A_55_P1978521	0,97	6,75	0,0046	Gbp10	Mus musculus guanylate-binding protein 10 (Gbp10), mRNA [NM_001039646]
A_52_P361993	0,97	3,87	0,0336	Zc2hc1a	Mus musculus zinc finger, C2HC-type containing 1A (Zc2hc1a), mRNA [NM_173181]
A_55_P2066792	0,97	6,72	0,0047	Sp110	Mus musculus Sp110 nuclear body protein (Sp110), transcript variant 1, mRNA [NM_175397]
A_55_P2019601	0,97	7,29	0,0033	Csprs	Mus musculus component of Sp100-rs (Csprs), mRNA [NM_033616]
A_51_P430900	0,97	9,24	0,0010	Dusp1	Mus musculus dual specificity phosphatase 1 (Dusp1), mRNA [NM_013642]
A_55_P2097474	0,96	5,79	0,0080	Creb5	Mus musculus cAMP responsive element binding protein 5 (Creb5), mRNA [NM_172728]
A_55_P2349198	0,96	4,38	0,0211	D330022H12 Rik	Mus musculus 13 days embryo heart cDNA, RIKEN full-length enriched library, clone:D330022H12 product:unclassifiable, full insert sequence. [AK021285]
A_51_P237754	0,96	8,10	0,0020	H2-T23	Mus musculus histocompatibility 2, T region locus 23 (H2-T23), mRNA [NM_010398]
A_52_P973575	0,96	3,82	0,0351	Hoxb9	Mus musculus homeobox B9 (Hoxb9), mRNA [NM_008270]
A_55_P2241488	0,96	3,59	0,0436	5330439K02 Rik	Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330439K02 product:unclassifiable, full insert sequence. [AK019939]
A_55_P2186005	0,96	3,77	0,0368	Sphk1	Mus musculus sphingosine kinase 1 (Sphk1), transcript variant 4, mRNA [NM_001172472]
A_55_P1972915	0,96	6,19	0,0063	LOC102638978	PREDICTED: Mus musculus uncharacterized LOC102638978 (LOC102638978), mRNA [XM_006502573]
A_55_P2058646	0,96	3,55	0,0453	Nhlh1	Mus musculus nescient helix loop helix 1 (Nhlh1), mRNA [NM_010916]
A_51_P478722	0,96	4,18	0,0251	Tgtp1	Mus musculus T cell specific GTPase 1 (Tgtp1), mRNA [NM_011579]
A_55_P2158990	0,96	8,51	0,0015	Jun	Mus musculus jun proto-oncogene (Jun), mRNA [NM_010591]
A_55_P2057132	0,96	5,08	0,0124	Scn8a	Mus musculus sodium channel, voltage-gated, type VIII, alpha (Scn8a), transcript variant 1, mRNA [NM_001077499]
A_55_P2076772	0,96	7,92	0,0022	Hspa5	Mus musculus heat shock protein 5 (Hspa5), transcript variant 2, mRNA [NM_022310]
A_55_P2049262	0,96	5,70	0,0085	Gm16525	Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clone:4833401M19 product:unclassifiable, full insert sequence. [AK029351]
A_55_P1996711	0,96	3,85	0,0341	Olf1443	Mus musculus olfactory receptor 1443 (Olf1443), mRNA [NM_146698]
A_66_P118316	0,95	3,76	0,0371	1700047G07 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700047G07 product:hypothetical protein, full insert sequence. [AK006709]
A_66_P134441	0,95	3,51	0,0473	Pcnx13	Mus musculus pecanex-like 3 (Drosophila) (Pcnx13), mRNA [NM_144868]
A_55_P1992227	0,95	4,65	0,0170	Zkscan2	Mus musculus zinc finger with KRAB and SCAN domains 2 (Zkscan2), mRNA [NM_001081329]
A_55_P2014229	0,95	7,07	0,0038	Sema4a	Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A (Sema4a), transcript variant 1, mRNA [NM_013658]
A_55_P2013391	0,95	4,46	0,0199	Gm4402	Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4732470F13 product:unclassifiable, full insert sequence. [AK028917]
A_55_P2146708	0,95	6,53	0,0053	Zcchc9	Mus musculus zinc finger, CCHC domain containing 9 (Zcchc9), mRNA [NM_145453]
A_51_P147034	0,95	3,94	0,0313	Ica1l	Mus musculus islet cell autoantigen 1-like (Ica1l), mRNA [NM_027407]
A_55_P1961965	0,95	6,02	0,0070	Plagl1	Mus musculus pleiomorphic adenoma gene-like 1 (Plagl1), mRNA [NM_009538]
A_55_P2031631	0,95	6,56	0,0052	Igf1	Mus musculus insulin-like growth factor 1 (Igf1), transcript variant 1, mRNA [NM_010512]
A_51_P399845	0,95	3,50	0,0474	Fgf2	Mus musculus fibroblast growth factor 2 (Fgf2), mRNA [NM_008006]
A_65_P07361	0,95	5,52	0,0093	Trim14	Mus musculus tripartite motif-containing 14 (Trim14), mRNA [NM_029077]
A_66_P113505	0,95	3,47	0,0489	Fgd4	FYVE, RhoGEF and PH domain containing 4 [Source:MGI Symbol;Acc:MGI:2183747] [ENSMUST00000161624]



A_55_P2070869	0,95	5,02	0,0130	Lcn2	Mus musculus lipocalin 2 (Lcn2), mRNA [NM_008491]
A_55_P2208682	0,95	4,98	0,0134	B230334C09 Rik	Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030005117 product:unclassifiable, full insert sequence. [AK081211]
A_55_P2071132	0,95	5,24	0,0110	Tnfrsf23	Mus musculus tumor necrosis factor receptor superfamily, member 23 (Tnfrsf23), mRNA [NM_024290]
A_66_P137605	0,95	4,62	0,0173	Mb21d1	Mus musculus Mab-21 domain containing 1 (Mb21d1), mRNA [NM_173386]
A_55_P2166501	0,95	5,03	0,0129	Cd44	Mus musculus CD44 antigen (Cd44), transcript variant 1, mRNA [NM_009851]
A_55_P1988384	0,95	6,04	0,0069	Slc7a3	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 3 (Slc7a3), mRNA [NM_007515]
A_52_P93467	0,95	4,36	0,0216	Sdc4	Mus musculus syndecan 4 (Sdc4), mRNA [NM_011521]
A_55_P2086628	0,95	4,18	0,0252	Gm5590	PREDICTED: Mus musculus predicted gene 5590 (Gm5590), transcript variant X2, misc_RNA [XR_391383]
A_55_P2119761	0,94	5,42	0,0099	Gm10228	Mus musculus predicted gene 10228 (Gm10228), mRNA [NM_001270487]
A_51_P303424	0,94	5,10	0,0122	Itgax	Mus musculus integrin alpha X (Itgax), mRNA [NM_021334]
A_66_P138137	0,94	5,30	0,0106	Pnp	Mus musculus purine-nucleoside phosphorylase (Pnp), mRNA [NM_013632]
A_55_P2128501	0,94	5,17	0,0116	Krt8	Mus musculus keratin 8 (Krt8), mRNA [NM_031170]
A_55_P1994294	0,94	4,24	0,0238	D830030K20 Rik	PREDICTED: Mus musculus RIKEN cDNA D830030K20 gene (D830030K20Rik), transcript variant X3, mRNA [XM_006518053]
A_55_P2183015	0,94	5,33	0,0105	P2rx4	Mus musculus purinergic receptor P2X, ligand-gated ion channel 4 (P2rx4), mRNA [NM_011026]
A_51_P160439	0,94	4,57	0,0182	Crybg3	Mus musculus beta-gamma crystallin domain containing 3 (Crybg3), mRNA [NM_174848]
A_55_P2108389	0,94	6,10	0,0066	D830030K20 Rik	Mus musculus RIKEN cDNA D830030K20 gene (D830030K20Rik), mRNA [NM_177135]
A_55_P1993851	0,94	5,69	0,0085	Gm10021	Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130083G05 product:hypothetical protein, full insert sequence. [AK084071]
A_52_P586821	0,94	3,61	0,0426	Gng4	Mus musculus guanine nucleotide binding protein (G protein), gamma 4 (Gng4), mRNA [NM_010317]
A_51_P353895	0,94	4,18	0,0250	Sult1c2	Mus musculus sulfotransferase family, cytosolic, 1C, member 2 (Sult1c2), mRNA [NM_026935]
A_55_P1994603	0,94	5,93	0,0073	Itsn1	Mus musculus intersectin 1 (SH3 domain protein 1A) (Itsn1), transcript variant 1, mRNA [NM_010587]
A_55_P1992680	0,94	4,86	0,0146	Ubtf	Mus musculus upstream binding transcription factor, RNA polymerase I (Ubtf), transcript variant 1, mRNA [NM_011551]
A_55_P2028171	0,94	3,71	0,0388	Dppa5a	Mus musculus developmental pluripotency associated 5A (Dppa5a), mRNA [NM_025274]
A_55_P1966734	0,94	5,69	0,0085	Cyp2u1	Mus musculus 16 days embryo lung cDNA, RIKEN full-length enriched library, clone:8430436A10 product:weakly similar to RAT CYTOCHROME P-450B TYPE E (FRAGMENT) [Rattus norvegicus], full insert sequence. [AK018458]
A_51_P129012	0,94	8,47	0,0016	B2m	Mus musculus beta-2 microglobulin (B2m), mRNA [NM_009735]
A_52_P263658	0,93	3,59	0,0436	Hes2	Mus musculus hairy and enhancer of split 2 (Drosophila) (Hes2), mRNA [NM_008236]
A_55_P2251181	0,93	5,15	0,0118	2900076A13 Rik	Mus musculus adult male hippocampus cDNA, RIKEN full-length enriched library, clone:2900076A13 product:unclassifiable, full insert sequence. [AK013795]
A_51_P315904	0,93	8,89	0,0012	Gadd45g	Mus musculus growth arrest and DNA-damage-inducible 45 gamma (Gadd45g), mRNA [NM_011817]
A_52_P93910	0,93	4,76	0,0157	Nrp2	Mus musculus neuropilin 2 (Nrp2), transcript variant 1, mRNA [NM_001077403]
A_51_P472249	0,93	7,92	0,0022	Slc7a7	Mus musculus solute carrier family 7 (cationic amino acid transporter, y+ system), member 7 (Slc7a7), transcript variant 1, mRNA [NM_011405]
A_55_P1999648	0,93	6,74	0,0047	Plin2	Mus musculus perilipin 2 (Plin2), mRNA [NM_007408]
A_55_P2143184	0,93	6,01	0,0070	Hrh4	Mus musculus histamine receptor H4 (Hrh4), mRNA [NM_153087]
A_52_P52618	0,93	4,68	0,0166	Csf2rb	Mus musculus colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) (Csf2rb), mRNA [NM_007780]
A_51_P421140	0,93	5,14	0,0119	Tubb6	Mus musculus tubulin, beta 6 class V (Tubb6), mRNA [NM_026473]
A_55_P2046145	0,93	4,22	0,0241	Gm10693	PREDICTED: Mus musculus predicted pseudogene 10693 (Gm10693), misc_RNA [XR_403899]
A_51_P501844	0,93	4,25	0,0237	Cyp26b1	Mus musculus cytochrome P450, family 26, subfamily b, polypeptide 1 (Cyp26b1), transcript variant 1, mRNA [NM_175475]
A_55_P2032755	0,93	5,45	0,0097	LOC1000483 45	Mus musculus 10 days neonate olfactory brain cDNA, RIKEN full-length enriched library, clone:E530018102 product:hypothetical protein, full insert sequence. [AK089156]
A_55_P1999811	0,93	4,09	0,0272	Gm7696	PREDICTED: Mus musculus predicted gene 7696 (Gm7696), transcript variant X1, misc_RNA [XR_391139]
A_51_P386670	0,93	3,77	0,0370	Dse	Mus musculus dermatan sulfate epimerase (Dse), mRNA [NM_172508]
A_51_P463497	0,93	6,62	0,0050	Rnh1	Mus musculus ribonuclease/angiogenin inhibitor 1 (Rnh1), transcript variant 1, mRNA [NM_145135]
A_55_P2470474	0,92	5,79	0,0080	9530082P21 Rik	Mus musculus 0 day neonate lung cDNA, RIKEN full-length enriched library, clone:E030034F15 product:unclassifiable, full insert sequence. [AK087205]
A_51_P324975	0,92	4,42	0,0204	Olf821	Mus musculus olfactory receptor 821 (Olf821), mRNA [NM_146776]
A_55_P2393483	0,92	4,48	0,0195	6430584L05 Rik	Mus musculus RIKEN cDNA 6430584L05 gene (6430584L05Rik), long non-coding RNA [NR_046179]
A_55_P2065294	0,92	5,36	0,0103	Scn3a	Mus musculus 2 days neonate sympathetic ganglion cDNA, RIKEN full-length enriched library, clone:7120459A07 product:Voltage-gated sodium channel (SCN3A) (Fragment) homolog [Homo

					sapiens], full insert sequence. [AK148881]
A_55_P2085905	0,92	5,54	0,0092	Anpep	Mus musculus alanyl (membrane) aminopeptidase (Anpep), mRNA [NM_008486]
A_55_P1961499	0,92	4,65	0,0170	Ly6c1	Mus musculus lymphocyte antigen 6 complex, locus C1 (Ly6c1), transcript variant 5, mRNA [NM_001252058]
A_52_P183181	0,92	9,23	0,0010	Adar	Mus musculus adenosine deaminase, RNA-specific (Adar), transcript variant 2, mRNA [NM_001038587]
A_55_P2003266	0,92	5,41	0,0100	Fam107a	Mus musculus family with sequence similarity 107, member A (Fam107a), mRNA [NM_183187]
A_55_P1953866	0,92	5,55	0,0092	Sema4c	Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C (Sema4c), mRNA [NM_001126047]
A_55_P2079560	0,92	3,51	0,0472	Lilra6	Mus musculus leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6 (Lilra6), transcript variant 1, mRNA [NM_011090]
A_55_P2039454	0,92	4,06	0,0279	Gm5088	Mus musculus predicted gene 5088 (Gm5088), non-coding RNA [NR_002862]
A_55_P1997604	0,92	5,07	0,0125	Pla2g4a	Mus musculus phospholipase A2, group IVA (cytosolic, calcium-dependent) (Pla2g4a), mRNA [NM_008869]
A_55_P2048650	0,92	5,18	0,0115	Dennd4a	Mus musculus visual cortex cDNA, RIKEN full-length enriched library, clone:K430341N21 product:hypothetical protein, full insert sequence. [AK158840]
A_52_P367294	0,92	4,77	0,0156	Fsd1l	Mus musculus fibronectin type III and SPRY domain containing 1-like (Fsd1l), transcript variant 2, mRNA [NM_176966]
A_55_P2173005	0,92	5,93	0,0073	Dnase2a	Mus musculus deoxyribonuclease II alpha (Dnase2a), mRNA [NM_010062]
A_55_P2128113	0,92	3,80	0,0358	Tbc1d12	Mus musculus TBC1D12: TBC1 domain family, member 12 (Tbc1d12), mRNA [NM_145952]
A_55_P2201020	0,92	3,50	0,0475	AI790442	DLP01_05_H18.x1 FH DLP01 Mus musculus cDNA clone DLP01_05_H18 similar to Expressed sequence AI790442, mRNA sequence [DV053137]
A_55_P2183055	0,92	4,95	0,0138	E4f1	Mus musculus E4F transcription factor 1 (E4f1), mRNA [NM_007893]
A_55_P2088296	0,92	5,96	0,0072	Fam160b2	Mus musculus family with sequence similarity 160, member B2 (Fam160b2), mRNA [NM_194345]
A_55_P2139501	0,92	3,50	0,0476	Alk	Mus musculus anaplastic lymphoma kinase (Alk), mRNA [NM_007439]
A_55_P1990874	0,91	5,54	0,0092	Banp	Mus musculus BTG3 associated nuclear protein (Banp), transcript variant 2, mRNA [NM_016812]
A_55_P2060284	0,91	4,10	0,0270	Itpril2	Mus musculus inositol 1,4,5-triphosphate receptor interacting protein-like 2 (Itpril2), mRNA [NM_001033380]
A_55_P2021570	0,91	4,67	0,0168	C87414	Mus musculus expressed sequence C87414 (C87414), transcript variant 1, mRNA [NM_001164284]
A_55_P2025612	0,91	4,82	0,0150	Psme2b	Mus musculus protease (prosome, macropain) activator subunit 2B (Psme2b), mRNA [NM_001281472]
A_55_P2075894	0,91	4,69	0,0165	Gm5215	PREDICTED: Mus musculus predicted gene 5215 (Gm5215), mRNA [XM_006521608]
A_51_P377452	0,91	6,72	0,0047	Ncf4	Mus musculus neutrophil cytosolic factor 4 (Ncf4), mRNA [NM_008677]
A_51_P499838	0,91	4,02	0,0290	Bst1	Mus musculus bone marrow stromal cell antigen 1 (Bst1), mRNA [NM_009763]
A_55_P2134712	0,91	3,45	0,0496	A130077B15 Rik	Mus musculus RIKEN cDNA A130077B15 gene (A130077B15Rik), long non-coding RNA [NR_040616]
A_55_P2050366	0,91	3,72	0,0388	Igf1os	Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130048N15 product:unclassifiable, full insert sequence. [AK051435]
A_55_P1962299	0,91	4,07	0,0276	Hba-a2	Mus musculus hemoglobin alpha, adult chain 2 (Hba-a2), mRNA [NM_001083955]
A_55_P2135980	0,91	5,96	0,0072	Ms4a4c	Mus musculus membrane-spanning 4-domains, subfamily A, member 4C (Ms4a4c), mRNA [NM_029499]
A_55_P1992838	0,91	3,52	0,0469	Socs2	Mus musculus suppressor of cytokine signaling 2 (Socs2), transcript variant 1, mRNA [NM_007706]
A_55_P1962304	0,91	4,02	0,0290	Plac8	Mus musculus placenta-specific 8 (Plac8), mRNA [NM_139198]
A_55_P2024245	0,90	6,57	0,0052	Mthfr	Mus musculus 5,10-methylenetetrahydrofolate reductase (Mthfr), transcript variant 1, mRNA [NM_001161798]
A_55_P2183513	0,90	5,64	0,0087	Gm10614	Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030060M02 product:hypothetical protein, full insert sequence. [AK141770]
A_55_P2066463	0,90	3,48	0,0484	Enah	Mus musculus enabled homolog (Drosophila) (Enah), transcript variant 1, mRNA [NM_010135]
A_55_P2023818	0,90	4,16	0,0254	Cysl1r1	Mus musculus cysteinyl leukotriene receptor 1 (Cysl1r1), transcript variant 1, mRNA [NM_021476]
A_66_P122110	0,90	9,23	0,0010	Mitd1	Mus musculus MIT, microtubule interacting and transport, domain containing 1 (Mitd1), mRNA [NM_026913]
A_55_P2025611	0,90	7,84	0,0023	Psme2b	Mus musculus protease (prosome, macropain) activator subunit 2B (Psme2b), mRNA [NM_001281472]
A_55_P2027213	0,90	6,04	0,0069	Krtap20-2	Mus musculus keratin associated protein 20-2 (Krtap20-2), mRNA [NM_001163615]
A_55_P1991778	0,90	5,74	0,0083	Fam219a	Mus musculus family with sequence similarity 219, member A (Fam219a), transcript variant 1, mRNA [NM_001159583]
A_52_P415155	0,90	3,64	0,0413	Wnt6	Mus musculus wingless-related MMTV integration site 6 (Wnt6), mRNA [NM_009526]
A_55_P2049647	0,90	7,30	0,0033	H2-K1	Mus musculus histocompatibility 2, K1, K region (H2-K1), transcript variant 1, mRNA [NM_001001892]
A_55_P1984035	0,90	3,54	0,0459	Litaf	Mus musculus LPS-induced TN factor (Litaf), mRNA [NM_019980]
A_55_P2016004	0,90	4,45	0,0199	Cd22	Mus musculus CD22 antigen (Cd22), transcript variant 1, mRNA [NM_001043317]
A_55_P2177721	0,90	5,10	0,0122	Adra1b	Mus musculus adrenergic receptor, alpha 1b (Adra1b), transcript variant 3, mRNA [NM_001284381]
A_55_P1958250	0,90	10,53	0,0005	Rnf114	Mus musculus ring finger protein 114 (Rnf114), mRNA [NM_030743]

A_52_P570266	0,90	9,31	0,0010	Psm10	Mus musculus proteasome (prosome, macropain) subunit, beta type 10 (Psm10), mRNA [NM_013640]
A_55_P2023937	0,90	4,56	0,0185	Impg1	Mus musculus interphotoreceptor matrix proteoglycan 1 (Impg1), mRNA [NM_022016]
A_55_P1967015	0,89	4,16	0,0255	Fgfr1	Mus musculus fibroblast growth factor receptor 1 (Fgfr1), transcript variant 1, mRNA [NM_010206]
A_55_P2140646	0,89	9,54	0,0009	Creg1	Mus musculus cellular repressor of E1A-stimulated genes 1 (Creg1), mRNA [NM_011804]
A_66_P132613	0,89	6,56	0,0052	C230057M02 Rik	PREDICTED: Mus musculus RIKEN cDNA C230057M02 gene (C230057M02Rik), transcript variant X1, misc_RNA [XR_388139]
A_55_P2208463	0,89	4,75	0,0158	6820426E19 Rik	PREDICTED: Mus musculus RIKEN cDNA 6820426E19 gene (6820426E19Rik), misc_RNA [XR_105017]
A_55_P2134581	0,89	5,08	0,0124	Papola	Mus musculus poly (A) polymerase alpha (Papola), mRNA [NM_011112]
A_55_P2117664	0,89	4,44	0,0201	Rnf165	Mus musculus ring finger protein 165 (Rnf165), mRNA [NM_001164504]
A_55_P2125049	0,89	7,96	0,0022	Gm11127	Mus musculus predicted gene 11127 (Gm11127), mRNA [NM_001199967]
A_55_P2102365	0,89	5,03	0,0129	Spag7	Mus musculus sperm associated antigen 7 (Spag7), transcript variant 1, mRNA [NM_172561]
A_55_P2103055	0,89	3,63	0,0419	Gsr	Mus musculus glutathione reductase (Gsr), mRNA [NM_010344]
A_55_P1953361	0,89	5,36	0,0103	Luc7l2	Mus musculus LUC7-like 2 (S. cerevisiae) (Luc7l2), transcript variant 1, mRNA [NM_138680]
A_55_P2129578	0,89	5,51	0,0093	Pkp3	Mus musculus plakophilin 3 (Pkp3), transcript variant 2, mRNA [NM_001162924]
A_55_P2085984	0,89	6,57	0,0052	Igf1	Mus musculus insulin-like growth factor 1 (Igf1), transcript variant 1, mRNA [NM_010512]
A_55_P1956667	0,89	5,60	0,0089	Cyfp1	Mus musculus cytoplasmic FMR1 interacting protein 1 (Cyfp1), transcript variant 1, mRNA [NM_001164661]
A_55_P2181419	0,89	4,28	0,0231	Tcf4	Mus musculus transcription factor 4 (Tcf4), transcript variant 1, mRNA [NM_013685]
A_55_P2008407	0,89	4,60	0,0177	Ppp1r14c	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14c (Ppp1r14c), mRNA [NM_133485]
A_55_P2022509	0,89	4,49	0,0194	Mgat5b	Mus musculus mannoside acetylglucosaminyltransferase 5, isoenzyme B (Mgat5b), mRNA [NM_172948]
A_51_P392687	0,89	8,30	0,0017	Vim	Mus musculus vimentin (Vim), mRNA [NM_011701]
A_55_P2051622	0,89	4,67	0,0167	Gm8479	Mus musculus strain DBA/2J thiopurine S-methyltransferase (Tpm1) pseudogene, mRNA sequence. [AF037047]
A_51_P487668	0,88	5,71	0,0084	H2afy3	Mus musculus H2A histone family, member Y3 (H2afy3), non-coding RNA [NR_003523]
A_55_P2150294	0,88	5,44	0,0098	E030030106 Rik	Mus musculus RIKEN cDNA E030030106 gene (E030030106Rik), transcript variant 1, mRNA [NM_001254744]
A_55_P2068496	0,88	4,93	0,0139	LOC102635467	PREDICTED: Mus musculus uncharacterized LOC102635467 (LOC102635467), transcript variant X1, ncRNA [XR_390672]
A_55_P1984523	0,88	5,42	0,0099	Gm1305	PREDICTED: Mus musculus predicted gene 1305 (Gm1305), mRNA [XM_006497097]
A_55_P2062926	0,88	4,43	0,0203	D430041D05 Rik	Mus musculus RIKEN cDNA D430041D05 gene (D430041D05Rik), mRNA [NM_001033347]
A_55_P2329313	0,88	3,63	0,0418	C530014P21 Rik	Mus musculus 12 days embryo spinal cord cDNA, RIKEN full-length enriched library, clone:C530014P21 product:unclassifiable, full insert sequence. [AK049648]
A_55_P2145059	0,88	4,28	0,0232	Gbp5	Mus musculus guanylate binding protein 5a (Gbp5) mRNA, complete cds; alternatively spliced. [AF487898]
A_55_P2174371	0,88	3,76	0,0371	9430038101 Rik	RIKEN cDNA 9430038101 gene [Source:MGI Symbol;Acc:MGI:1924502] [ENSIMUST00000135335]
A_55_P2085880	0,88	4,08	0,0275	Aco1	Mus musculus aconitase 1 (Aco1), mRNA [NM_007386]
A_52_P85174	0,88	3,89	0,0326	Tlr3	Mus musculus toll-like receptor 3 (Tlr3), mRNA [NM_126166]
A_66_P113490	0,88	9,03	0,0011	Sh2b2	Mus musculus SH2B adaptor protein 2 (Sh2b2), mRNA [NM_018825]
A_55_P2039320	0,88	8,86	0,0012	Zfp365	Mus musculus zinc finger protein 365 (Zfp365), mRNA [NM_178679]
A_55_P2181109	0,88	5,01	0,0131	Il10rb	Mus musculus interleukin 10 receptor, beta (Il10rb), mRNA [NM_008349]
A_55_P1981674	0,88	4,49	0,0194	Atic	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase [Source:MGI Symbol;Acc:MGI:1351352] [ENSIMUST00000027384]
A_55_P1955857	0,88	5,51	0,0093	Ap5z1	Mus musculus adaptor-related protein complex 5, zeta 1 subunit (Ap5z1), mRNA [NM_172725]
A_55_P1974577	0,88	5,12	0,0121	Nfam1	Mus musculus Nfat activating molecule with ITAM motif 1 (Nfam1), transcript variant 1, mRNA [NM_001271411]
A_55_P2121408	0,88	5,67	0,0086	Tpm2	Mus musculus tropomyosin 2, beta (Tpm2), transcript variant 2, mRNA [NM_001277875]
A_51_P143200	0,88	4,00	0,0297	Tcstv3	Mus musculus 2-cell-stage, variable group, member 3 (Tcstv3), mRNA [NM_153523]
A_55_P1964138	0,87	5,39	0,0101	Pign	Mus musculus phosphatidylinositol glycan anchor biosynthesis, class N (Pign), mRNA [NM_013784]
A_55_P2148873	0,87	5,43	0,0098	Cat	Mus musculus catalase (Cat), mRNA [NM_009804]
A_66_P120567	0,87	4,83	0,0149	Anxa1	Mus musculus annexin A1 (Anxa1), mRNA [NM_010730]
A_55_P2213828	0,87	8,52	0,0015	4933412E12 Rik	Mus musculus RIKEN cDNA 4933412E12 gene (4933412E12Rik), transcript variant 1, long non-coding RNA [NR_038025]
A_55_P2035986	0,87	5,02	0,0130	E330020D12 Rik	Mus musculus Riken cDNA E330020D12 gene (E330020D12Rik), long non-coding RNA [NR_033736]
A_55_P2007981	0,87	3,60	0,0430	Fmn2	Mus musculus formin 2 (Fmn2), mRNA [NM_019445]
A_52_P375312	0,87	7,25	0,0033	Amica1	Mus musculus adhesion molecule, interacts with CXADR antigen 1 (Amica1), mRNA [NM_001005421]
A_55_P2171897	0,87	6,92	0,0042	Notch1	Mus musculus notch 1 (Notch1), mRNA [NM_008714]



A_52_P257812	0,87	3,45	0,0496	Lpl	Mus musculus lipoprotein lipase (Lpl), mRNA [NM_008509]
A_55_P2141699	0,87	7,52	0,0029	Rnf149	Mus musculus ring finger protein 149 (Rnf149), mRNA [NM_001033135]
A_55_P1989321	0,87	6,84	0,0044	Sat1	Mus musculus spermidine/spermine N1-acetyl transferase 1 (Sat1), transcript variant 2, mRNA [NM_001291865]
A_55_P2075298	0,87	5,01	0,0131	Atp8a1	Mus musculus ATPase, aminophospholipid transporter (APLT), class I, type 8A, member 1 (Atp8a1), transcript variant 1, mRNA [NM_001038999]
A_55_P1998471	0,87	4,61	0,0176	S100a9	Mus musculus S100 calcium binding protein A9 (calgranulin B) (S100a9), transcript variant 1, mRNA [NM_001281852]
A_51_P452629	0,87	5,23	0,0111	Tlr2	Mus musculus toll-like receptor 2 (Tlr2), mRNA [NM_011905]
A_55_P2034341	0,87	3,80	0,0360	Qrfr	Mus musculus pyroglutamylated RFamide peptide receptor (Qrfr), mRNA [NM_198192]
A_55_P2126945	0,87	3,97	0,0305	1700066B19 Rik	Mus musculus RIKEN cDNA 1700066B19 gene (1700066B19Rik), mRNA [NM_001033168]
A_51_P198434	0,87	7,65	0,0027	H2-K1	Mus musculus histocompatibility 2, K1, K region (H2-K1), transcript variant 1, mRNA [NM_001001892]
A_55_P2046802	0,87	5,78	0,0081	Mikl	Mus musculus mixed lineage kinase domain-like (Mikl), mRNA [NM_029005]
A_55_P2342030	0,87	3,73	0,0380	1700101111 Rik	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230018J24 product:hypothetical protein, full insert sequence. [AK138162]
A_55_P2035315	0,87	4,46	0,0199	Rasgef1b	Mus musculus RasGEF domain family, member 1B (Rasgef1b), transcript variant 1, mRNA [NM_145839]
A_51_P106799	0,87	6,27	0,0061	Pparg	Mus musculus peroxisome proliferator activated receptor gamma (Pparg), transcript variant 2, mRNA [NM_011146]
A_55_P2011867	0,87	5,05	0,0127	Kif19a	Mus musculus kinesin family member 19A (Kif19a), mRNA [NM_001102615]
A_55_P1958857	0,87	5,90	0,0074	Nek6	Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 6 (Nek6), transcript variant 1, mRNA [NM_001159631]
A_55_P2152901	0,87	4,51	0,0192	2900040C04 Rik	PREDICTED: Mus musculus RIKEN cDNA 2900040C04 gene (2900040C04Rik), misc. RNA [XR_383605]
A_55_P1978506	0,86	8,58	0,0015	H2-Q8	Mus musculus histocompatibility 2, Q region locus 8 (H2-Q8), mRNA [NM_023124]
A_66_P136102	0,86	3,73	0,0380	Lefty2	Mus musculus left-right determination factor 2 (Lefty2), mRNA [NM_177099]
A_55_P2007356	0,86	5,20	0,0113	Iqcg	Mus musculus IQ motif containing G (Iqcg), mRNA [NM_178378]
A_52_P130686	0,86	6,80	0,0045	Olfir549	Mus musculus olfactory receptor 549 (Olfir549), mRNA [NM_147101]
A_55_P2144781	0,86	4,33	0,0222	Erich5	Mus musculus glutamate rich 5 (Erich5), mRNA [NM_173421]
A_55_P2185410	0,86	3,46	0,0494	Gm5258	PREDICTED: Mus musculus predicted gene 5258 (Gm5258), mRNA [XM_006543557]
A_52_P681310	0,86	5,00	0,0132	Plaur	Mus musculus plasminogen activator, urokinase receptor (Plaur), mRNA [NM_011113]
A_65_P19395	0,86	7,16	0,0036	H2-D1	Mus musculus histocompatibility 2, D region locus 1 (H2-D1), mRNA [NM_010380]
A_55_P2015403	0,86	3,60	0,0429	9930111J21R ik1	Mus musculus RIKEN cDNA 9930111J21 gene 1 (9930111J21Rik1), mRNA [NM_001114679]
A_55_P1964364	0,86	6,58	0,0051	Kctd14	Mus musculus potassium channel tetramerisation domain containing 14 (Kctd14), transcript variant 2, mRNA [NM_001012434]
A_55_P1960097	0,86	3,88	0,0332	Epb4.113	Mus musculus erythrocyte protein band 4.1-like 3 (Epb4.113), mRNA [NM_013813]
A_55_P1972481	0,86	8,51	0,0015	LOC102641046	PREDICTED: Mus musculus h-2 class I histocompatibility antigen, D-37 alpha chain-like (LOC102641046), partial mRNA [XM_006544801]
A_51_P231946	0,86	5,44	0,0098	1700029P11 Rik	Mus musculus RIKEN cDNA 1700029P11 gene (1700029P11Rik), mRNA [NM_025503]
A_55_P1975660	0,86	5,23	0,0111	Hemgn	Mus musculus hemogen (Hemgn), mRNA [NM_053149]
A_55_P2065874	0,86	6,00	0,0070	D430042O09 Rik	Mus musculus RIKEN cDNA D430042O09 gene (D430042O09Rik), mRNA [NM_001081022]
A_52_P318673	0,86	5,21	0,0113	Saa1	Mus musculus serum amyloid A 1 (Saa1), mRNA [NM_009117]
A_55_P1983448	0,86	5,09	0,0124	S100a4	Mus musculus S100 calcium binding protein A4 (S100a4), mRNA [NM_011311]
A_55_P2042823	0,86	5,72	0,0084	Sh3bp2	Mus musculus SH3-domain binding protein 2 (Sh3bp2), transcript variant 2, mRNA [NM_001145859]
A_55_P2252251	0,86	4,22	0,0242	Olfir1372-ps1	Mus musculus olfactory receptor 1372, pseudogene 1 (Olfir1372-ps1), non-coding RNA [NR_034155]
A_55_P2192397	0,86	3,72	0,0388	A330023F24 Rik	Mus musculus B6-derived CD11 +ve dendritic cells cDNA, RIKEN full-length enriched library, clone:F730115K06 product:hypothetical protein, full insert sequence. [AK171382]
A_55_P2079579	0,86	5,74	0,0083	Pira7	Mus musculus paired-Ig-like receptor A7 (Pira7), mRNA [NM_011094]
A_55_P1983523	0,86	7,05	0,0038	Cd300ld	Mus musculus CD300 molecule-like family member d (Cd300ld), mRNA [NM_145437]
A_52_P650037	0,86	3,86	0,0339	Plxn4	Mus musculus plexin A4 (Plxn4), mRNA [NM_175750]
A_55_P2058270	0,85	3,59	0,0433	LOC101056056	PREDICTED: Mus musculus uncharacterized LOC101056056 (LOC101056056), mRNA [XM_003945407]
A_55_P2029533	0,85	3,98	0,0301	Zfp57	Mus musculus zinc finger protein 57 (Zfp57), transcript variant 3, mRNA [NM_001168502]
A_55_P2119764	0,85	3,79	0,0363	1110025L11 Rik	Mus musculus RIKEN cDNA 1110025L11 gene (1110025L11Rik), mRNA [NM_001276278]
A_52_P332788	0,85	5,32	0,0106	LOC102639105	PREDICTED: Mus musculus nuclear autoantigen Sp-100-like (LOC102639105), mRNA [XM_006496590]
A_55_P2104219	0,85	4,54	0,0188	Hoxc13	Mus musculus homeobox C13 (Hoxc13), mRNA [NM_010464]
A_51_P400543	0,85	3,85	0,0341	Aif1	Mus musculus allograft inflammatory factor 1 (Aif1), mRNA [NM_019467]

A_55_P2145680	0,85	4,78	0,0155	Rilp1	Mus musculus Rab interacting lysosomal protein-like 1 (Rilp1), mRNA [NM_021430]
A_55_P2084686	0,85	4,43	0,0202	Pdik1l	Mus musculus PDLIM1 interacting kinase 1 like (Pdik1l), transcript variant 1, mRNA [NM_146156]
A_55_P1989061	0,85	4,15	0,0258	Tsc22d3	Mus musculus TSC22 domain family, member 3 (Tsc22d3), transcript variant 1, mRNA [NM_001077364]
A_55_P2326727	0,85	4,69	0,0165	9430085M18 Rik	Mus musculus adult male epididymis cDNA, RIKEN full-length enriched library, clone:9230028I23 product:unclassifiable, full insert sequence. [AK162370]
A_55_P2004007	0,85	3,98	0,0302	LOC102639543	PREDICTED: Mus musculus pyrin domain-containing protein 3-like (LOC102639543), transcript variant X1, mRNA [XM_006497078]
A_55_P2046253	0,85	5,64	0,0087	Tmem239	Mus musculus transmembrane 239 (Tmem239), mRNA [NM_025753]
A_52_P15212	0,85	6,66	0,0049	Ctbp2	Mus musculus C-terminal binding protein 2 (Ctbp2), transcript variant 2, mRNA [NM_009980]
A_55_P1959061	0,85	8,48	0,0016	Oas1b	Mus musculus 2'-5' oligoadenylate synthetase 1B (Oas1b) mRNA, complete cds. [AF328926]
A_55_P2074371	0,85	4,43	0,0203	Lin28a	Mus musculus lin-28 homolog A (C. elegans) (Lin28a), mRNA [NM_145833]
A_55_P2028570	0,84	6,38	0,0057	Sgsh	Mus musculus N-sulfolglucosamine sulfohydrolase (sulfamidase) (Sgsh), mRNA [NM_018822]
A_55_P2292737	0,84	5,38	0,0102	2310002F09 Rik	Mus musculus RIKEN cDNA 2310002F09 gene (2310002F09Rik), long non-coding RNA [NR_077063]
A_55_P2025760	0,84	5,05	0,0127	Adam9	Mus musculus a disintegrin and metalloproteinase domain 9 (meltrin gamma) (Adam9), transcript variant 1, mRNA [NM_001270996]
A_55_P2084797	0,84	4,06	0,0279	Aff3	Mus musculus 4 days neonate male adipose cDNA, RIKEN full-length enriched library, clone:B430219L17 product:similar to LAF-4 PROTEIN (LYMPHOID NUCLEAR PROTEIN RELATED TO AF4) [Homo sapiens], full insert sequence. [AK046648]
A_55_P2116880	0,84	4,54	0,0187	Vax1	Mus musculus ventral anterior homeobox 1 (Vax1), mRNA [NM_009501]
A_55_P2110743	0,84	6,46	0,0055	Mettl7a2	Mus musculus methyltransferase like 7A2 (Mettl7a2), mRNA [NM_199477]
A_51_P481159	0,84	4,35	0,0218	Cbr3	Mus musculus carbonyl reductase 3 (Cbr3), mRNA [NM_173047]
A_52_P110070	0,84	5,31	0,0106	5730416F02 Rik	Mus musculus RIKEN cDNA 5730416F02 gene (5730416F02Rik), non-coding RNA [NR_033596]
A_55_P1975947	0,84	4,37	0,0213	8430419L09 Rik	Mus musculus RIKEN cDNA 8430419L09 gene (8430419L09Rik), mRNA [NM_028982]
A_55_P1983450	0,84	5,50	0,0094	S100a4	Mus musculus S100 calcium binding protein A4 (S100a4), mRNA [NM_011311]
A_55_P2068607	0,84	7,52	0,0029	Rnf19b	Mus musculus ring finger protein 19B (Rnf19b), mRNA [NM_029219]
A_55_P2423586	0,84	5,26	0,0109	Eya1	Mus musculus eyes absent 1 homolog (Drosophila) (Eya1), transcript variant 1, mRNA [NM_010164]
A_51_P172853	0,84	4,87	0,0145	Cd14	Mus musculus CD14 antigen (Cd14), mRNA [NM_009841]
A_55_P2030284	0,84	4,09	0,0271	Trem1	Mus musculus triggering receptor expressed on myeloid cells 1 (Trem1), mRNA [NM_021406]
A_55_P2027737	0,84	5,24	0,0109	Il1rl1	Mus musculus interleukin 1 receptor-like 1 (Il1rl1), transcript variant 1, mRNA [NM_001025602]
A_55_P2072110	0,84	5,39	0,0101	37865	Mus musculus septin 3 (Sept3), mRNA [NM_011889]
A_51_P110301	0,84	4,41	0,0206	C3	Mus musculus complement component 3 (C3), mRNA [NM_009778]
A_55_P2094626	0,83	5,55	0,0092	Ralgps1	Mus musculus Ral GEF with PH domain and SH3 binding motif 1 (Ralgps1), transcript variant 1, mRNA [NM_175211]
A_55_P2049532	0,83	3,99	0,0298	Sema4d	PREDICTED: Mus musculus sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D (Sema4d), transcript variant X10, mRNA [XM_006516891]
A_55_P2094925	0,83	9,09	0,0011	Srgn	Mus musculus serglycin (Srgn), mRNA [NM_011157]
A_55_P2418111	0,83	5,73	0,0083	C76472	H3034A08-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3034A08 3'. [BG065684]
A_55_P1959258	0,83	4,14	0,0258	Mcm8	Mus musculus minichromosome maintenance deficient 8 (S. cerevisiae) (Mcm8), transcript variant 1, mRNA [NM_001291054]
A_51_P107362	0,83	5,97	0,0072	Socs2	Mus musculus suppressor of cytokine signaling 2 (Socs2), transcript variant 1, mRNA [NM_007706]
A_55_P2141013	0,83	6,08	0,0067	Siglech	Mus musculus sialic acid binding Ig-like lectin H (Siglech), mRNA [NM_178706]
A_55_P2248315	0,83	6,29	0,0061	2310043M15 Rik	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310043M15 product:unclassifiable, full insert sequence. [AK009785]
A_55_P2082604	0,83	5,96	0,0072	Ndor1	Mus musculus NADPH dependent diflavin oxidoreductase 1 (Ndor1), transcript variant 1, mRNA [NM_001082476]
A_55_P2041673	0,83	7,01	0,0039	Ttc38	Mus musculus tetratricopeptide repeat domain 38 (Ttc38), mRNA [NM_001033337]
A_55_P1978511	0,83	8,38	0,0017	H2-Q7	Mus musculus histocompatibility 2, Q region locus 7 (H2-Q7), transcript variant 1, mRNA [NM_010394]
A_55_P2017729	0,83	7,40	0,0031	Gm2138	Mus musculus 15 days embryo head cDNA, RIKEN full-length enriched library, clone:D930042E23 product:unclassifiable, full insert sequence. [AK086623]
A_55_P2212006	0,83	4,86	0,0146	2410087M07 Rik	Mus musculus ES cells cDNA, RIKEN full-length enriched library, clone:2410087M07 product:unclassifiable, full insert sequence. [AK010742]
A_55_P2038484	0,83	4,94	0,0139	4933427D06 Rik	Mus musculus RIKEN cDNA 4933427D06 gene (4933427D06Rik), mRNA [NM_175017]
A_55_P2173664	0,83	6,03	0,0070	Gm626	PREDICTED: Mus musculus predicted gene 626 (Gm626), mRNA [XM_006519762]
A_55_P2027012	0,83	5,86	0,0076	Serpib8	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 8 (Serpib8), transcript variant 1, mRNA [NM_011459]
A_55_P2375194	0,83	4,47	0,0197	P2rx3	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930513E20 product:unclassifiable, full insert

					sequence. [AK019679]
A_52_P51078	0,83	5,10	0,0122	Ctsh	Mus musculus cathepsin H (Ctsh), mRNA [NM_007801]
A_51_P243914	0,83	5,63	0,0088	Skap2	Mus musculus src family associated phosphoprotein 2 (Skap2), mRNA [NM_018773]
A_55_P2141084	0,83	3,98	0,0302	Tenm4	Mus musculus teneurin transmembrane protein 4 (Tenm4), mRNA [NM_011858]
A_55_P2320085	0,83	4,32	0,0224	4833415N18 Rik	PREDICTED: Mus musculus RIKEN cDNA 4833415N18 gene (4833415N18Rik), transcript variant X3, ncRNA [XR_384679]
A_55_P1973399	0,83	5,64	0,0087	I730030J21R ik	Mus musculus RIKEN cDNA I730030J21 gene (I730030J21Rik), transcript variant 1, long non-coding RNA [NR_045781]
A_55_P2088905	0,83	4,36	0,0215	Hpca	Mus musculus hippocalcin (Hpca), transcript variant 1, mRNA [NM_001130419]
A_55_P2107207	0,83	7,46	0,0030	Gpr137b	PREDICTED: Mus musculus G protein-coupled receptor 137B (Gpr137b), transcript variant X2, misc RNA [XR_382078]
A_55_P2017759	0,82	5,39	0,0101	Evi2a	Mus musculus ecotropic viral integration site 2a (Evi2a), transcript variant 1, mRNA [NM_001033711]
A_51_P466229	0,82	4,25	0,0237	Pdgfrl	Mus musculus platelet-derived growth factor receptor-like (Pdgfrl), mRNA [NM_026840]
A_51_P403636	0,82	5,42	0,0099	Smad7	Mus musculus SMAD family member 7 (Smad7), mRNA [NM_001042660]
A_55_P1989514	0,82	4,39	0,0209	2010016118 Rik	Mus musculus RIKEN cDNA 2010016118 gene (2010016118Rik), long non-coding RNA [NR_033207]
A_55_P2115458	0,82	4,96	0,0136	Pot1a	Mus musculus protection of telomeres 1A (Pot1a), mRNA [NM_133931]
A_55_P2151056	0,82	5,50	0,0094	Rarg	Mus musculus retinoic acid receptor, gamma (Rarg), transcript variant 1, mRNA [NM_011244]
A_55_P2295445	0,82	6,84	0,0044	2600002B07 Rik	Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2600002B07 product:unclassifiable, full insert sequence. [AK011142]
A_52_P11174	0,82	3,60	0,0433	Hip1	Mus musculus huntingtin interacting protein 1 (Hip1), mRNA [NM_146001]
A_51_P203182	0,82	4,85	0,0147	Apobr	Mus musculus apolipoprotein B receptor (Apobr), mRNA [NM_138310]
A_52_P512817	0,82	7,61	0,0027	Shisa5	Mus musculus shisa homolog 5 (Xenopus laevis) (Shisa5), transcript variant 1, mRNA [NM_025858]
A_52_P359621	0,82	5,20	0,0113	Luzp1	Mus musculus leucine zipper protein 1 (Luzp1), mRNA [NM_024452]
A_52_P49601	0,82	7,42	0,0031	Fth1	Mus musculus ferritin heavy chain 1 (Fth1), transcript variant 1, mRNA [NM_010239]
A_55_P2182222	0,82	5,81	0,0079	Rab3c	Mus musculus RAB3C, member RAS oncogene family (Rab3c), mRNA [NM_023852]
A_55_P2026535	0,82	4,46	0,0198	Erc2	Mus musculus ELKS/RAB6-interacting/CAST family member 2 (Erc2), mRNA [NM_177814]
A_55_P2040838	0,82	3,58	0,0437	Gm14548	Mus musculus predicted gene 14548 (Gm14548), mRNA [NM_001166672]
A_55_P2378827	0,81	5,48	0,0095	LOC553096	Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130020E14 product:unclassifiable, full insert sequence. [AK047890]
A_55_P1989816	0,81	7,35	0,0032	Zbtb7b	Mus musculus zinc finger and BTB domain containing 7B (Zbtb7b), mRNA [NM_009565]
A_55_P2051334	0,81	5,58	0,0090	H2-K2	Mus musculus histocompatibility 2, K region locus 2 (H2-K2), non-coding RNA [NR_004446]
A_52_P77245	0,81	4,10	0,0269	Snx8	Mus musculus sorting nexin 8 (Snx8), mRNA [NM_172277]
A_55_P1999289	0,81	5,34	0,0105	Ovol2	Mus musculus ovo-like 2 (Drosophila) (Ovol2), transcript variant A, mRNA [NM_026924]
A_55_P1962937	0,81	5,55	0,0091	Trem2	Mus musculus triggering receptor expressed on myeloid cells 2 (Trem2), transcript variant 2, mRNA [NM_001272078]
A_55_P2361437	0,81	5,13	0,0120	Pitpnc1	Mus musculus phosphatidylinositol transfer protein, cytoplasmic 1 (Pitpnc1), mRNA [NM_145823]
A_55_P2098076	0,81	5,55	0,0092	Trim25	Mus musculus tripartite motif-containing 25, mRNA (cDNA clone MGC:30340 IMAGE:4022161), complete cds. [BC034276]
A_66_P139546	0,81	4,33	0,0222	Igfbp6	Mus musculus insulin-like growth factor binding protein 6 (Igfbp6), mRNA [NM_008344]
A_55_P1983358	0,81	5,03	0,0129	Gm4593	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230038K10 product:unclassifiable, full insert sequence. [AK138221]
A_55_P2011727	0,81	5,11	0,0122	Neur1b	Mus musculus neuralized homolog 1b (Drosophila) (Neur1b), mRNA [NM_001081656]
A_55_P2107182	0,81	4,26	0,0234	Gm6484	Mus musculus predicted gene 6484 (Gm6484), mRNA [NM_001080940]
A_55_P2002667	0,81	7,96	0,0022	Trim26	Mus musculus tripartite motif-containing 26 (Trim26), transcript variant 3, mRNA [NM_001286726]
A_51_P272553	0,81	4,33	0,0222	Bhlhe40	Mus musculus basic helix-loop-helix family, member e40 (Bhlhe40), mRNA [NM_011498]
A_51_P304163	0,81	3,83	0,0346	Serac1	Mus musculus serine active site containing 1 (Serac1), transcript variant 2, mRNA [NM_177311]
A_51_P246317	0,81	5,77	0,0082	Mt2	Mus musculus metallothionein 2 (Mt2), mRNA [NM_008630]
A_55_P1993468	0,81	3,77	0,0370	LOC101055939	PREDICTED: Mus musculus kinesin-like protein KIF19-like (LOC101055939), mRNA [XM_006504777]
A_55_P2068892	0,81	6,85	0,0044	Il6ra	Mus musculus interleukin 6 receptor, alpha (Il6ra), mRNA [NM_010559]
A_52_P230167	0,80	3,71	0,0389	Setbp1	Mus musculus SET binding protein 1 (Setbp1), mRNA [NM_053099]
A_51_P128876	0,80	5,23	0,0110	Ifitm3	Mus musculus interferon induced transmembrane protein 3 (Ifitm3), mRNA [NM_025378]
A_55_P2003221	0,80	4,21	0,0243	Gimap3	Mus musculus GTPase, IMAP family member 3 (Gimap3), mRNA [NM_031247]
A_55_P2006479	0,80	7,76	0,0024	3300002I08 Rik	Mus musculus RIKEN cDNA 3300002I08 gene (3300002I08Rik), mRNA [NM_027017]
A_55_P2019699	0,80	4,23	0,0241	Samhd1	Mus musculus SAM domain and HD domain, 1 (Samhd1), transcript variant 2, mRNA [NM_001139520]

A_51_P237752	0,80	6,66	0,0049	Ptrf	Mus musculus polymerase I and transcript release factor (Ptrf), mRNA [NM_008986]
A_51_P478688	0,80	5,30	0,0106	Samd10	Mus musculus sterile alpha motif domain containing 10 (Samd10), mRNA [NM_172676]
A_55_P2019293	0,80	3,71	0,0389	Gm8220	PREDICTED: Mus musculus predicted gene 8220 (Gm8220), transcript variant X2, mRNA [XM_006519845]
A_55_P2095854	0,80	5,98	0,0071	Rab3c	Mus musculus RAB3C, member RAS oncogene family (Rab3c), mRNA [NM_023852]
A_55_P2330822	0,80	6,23	0,0062	Epb4.115	PREDICTED: Mus musculus erythrocyte protein band 4.1-like 5 (Epb4.115), transcript variant X4, mRNA [XM_006529400]
A_55_P2076303	0,80	6,06	0,0068	39508	Mus musculus membrane-associated ring finger (C3HC4) 8 (March8), mRNA [NM_027920]
A_55_P1967617	0,80	5,75	0,0083	Med16	Mus musculus mediator complex subunit 16 (Med16), transcript variant 1, mRNA [NM_198107]
A_51_P502456	0,80	7,11	0,0037	H2-K2	Mus musculus histocompatibility 2, K region locus 2 (H2-K2), non-coding RNA [NR_004446]
A_55_P2008197	0,80	4,95	0,0138	Esr2	Mus musculus estrogen receptor 2 (beta) (Esr2), transcript variant 1, mRNA [NM_207707]
A_55_P2144386	0,80	3,53	0,0463	Emr1	Mus musculus EGF-like module containing, mucin-like, hormone receptor-like sequence 1 (Emr1), mRNA [NM_010130]
A_55_P1964218	0,80	6,87	0,0043	Tprkb	Mus musculus Tp53rk binding protein (Tprkb), transcript variant 1, mRNA [NM_001170488]
A_55_P2035539	0,80	4,28	0,0231	D3Ert751e	Mus musculus DNA segment, Chr 3, ERATO Doi 751, expressed (D3Ert751e), transcript variant 1, mRNA [NM_028667]
A_55_P2035087	0,80	4,88	0,0144	Arhgef15	Mus musculus Rho guanine nucleotide exchange factor (GEF) 15 (Arhgef15), mRNA [NM_177566]
A_55_P2052106	0,79	5,50	0,0094	BC049762	Mus musculus cDNA sequence BC049762 (BC049762), mRNA [NM_177567]
A_55_P2130393	0,79	3,46	0,0495	Pnpla1	Mus musculus patatin-like phospholipase domain containing 1 (Pnpla1), mRNA [NM_001034885]
A_52_P151853	0,79	5,72	0,0084	Tpd52	Mus musculus tumor protein D52 (Tpd52), transcript variant 2, mRNA [NM_001025262]
A_51_P490795	0,79	5,43	0,0098	Mxd1	Mus musculus MAX dimerization protein 1 (Mxd1), mRNA [NM_010751]
A_52_P654703	0,79	3,82	0,0351	Trim69	Mus musculus tripartite motif-containing 69 (Trim69), mRNA [NM_080510]
A_55_P2090142	0,79	5,32	0,0106	Kcna7	Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 7 (Kcna7), mRNA [NM_010596]
A_51_P114462	0,79	4,15	0,0256	Ccl17	Mus musculus chemokine (C-C motif) ligand 17 (Ccl17), mRNA [NM_011332]
A_65_P15245	0,79	3,51	0,0473	Nrp2	Mus musculus neuropilin 2 (Nrp2), transcript variant 5, mRNA [NM_001077406]
A_55_P2146535	0,79	6,50	0,0054	Cnr2	Mus musculus cannabinoid receptor 2 (macrophage) (Cnr2), mRNA [NM_009924]
A_55_P2062911	0,79	4,88	0,0145	Epha5	Mus musculus Eph receptor A5 (Epha5), mRNA [NM_007937]
A_55_P1968863	0,79	5,84	0,0077	Synpo2l	Mus musculus synaptopodin 2-like (Synpo2l), mRNA [NM_175132]
A_55_P1977812	0,79	5,90	0,0074	Cd244	Mus musculus CD244 natural killer cell receptor 2B4 (Cd244), mRNA [NM_018729]
A_55_P2041121	0,79	5,50	0,0094	Rn4.5s	Mus musculus 4.5S RNA (Rn4.5s), ribosomal RNA [NR_002841]
A_55_P2169069	0,79	4,71	0,0162	Gm10405	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230099F01 product:hypothetical protein, full insert sequence. [AK138421]
A_51_P389885	0,79	4,58	0,0181	Spic	Mus musculus Spi-C transcription factor (Spi-1/PU.1 related) (Spic), mRNA [NM_011461]
A_51_P301804	0,79	5,12	0,0121	St3gal1	Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 1 (St3gal1), mRNA [NM_009177]
A_55_P2056280	0,79	5,16	0,0117	Wdr89	Mus musculus WD repeat domain 89 (Wdr89), mRNA [NM_028203]
A_55_P2368098	0,79	3,98	0,0301	1110002J07Rik	Mus musculus adult male bone cDNA, RIKEN full-length enriched library, clone:9830160B12 product:unclassifiable, full insert sequence. [AK137587]
A_55_P2072403	0,79	5,71	0,0084	Suv39h2	Mus musculus suppressor of variegation 3-9 homolog 2 (Drosophila) (Suv39h2), transcript variant 1, mRNA [NM_022724]
A_55_P2200628	0,79	4,47	0,0197	4733401D01Rik	Mus musculus 10 days neonate skin cDNA, RIKEN full-length enriched library, clone:4733401D01 product:unclassifiable, full insert sequence. [AK014629]
A_55_P2058928	0,78	7,57	0,0028	Ralgds	Mus musculus ral guanine nucleotide dissociation stimulator (Ralgds), transcript variant 3, mRNA [NM_009058]
A_55_P2054728	0,78	5,22	0,0111	Ldlrad3	Mus musculus low density lipoprotein receptor class A domain containing 3 (Ldlrad3), transcript variant 1, mRNA [NM_178886]
A_55_P2423513	0,78	6,25	0,0061	B230369F24Rik	PREDICTED: Mus musculus RIKEN cDNA B230369F24 gene (B230369F24Rik), misc. RNA [XR_104601]
A_55_P2082614	0,78	4,68	0,0166	Zfp791	Mus musculus zinc finger protein 791 (Zfp791), mRNA [NM_001037745]
A_55_P2106844	0,78	5,34	0,0105	LOC102638811	PREDICTED: Mus musculus uncharacterized LOC102638811 (LOC102638811), transcript variant X3, ncRNA [XR_374158]
A_55_P1960202	0,78	3,58	0,0439	Vcan	Mus musculus versican (Vcan), transcript variant 1, mRNA [NM_001081249]
A_55_P2022399	0,78	3,75	0,0376	Ghrl	Mus musculus ghrelin (Ghrl), transcript variant 1, mRNA [NM_021488]
A_55_P2036180	0,78	7,29	0,0033	Mcf2l	Mus musculus mcf.2 transforming sequence-like (Mcf2l), transcript variant 1, mRNA [NM_178076]
A_51_P202050	0,78	4,01	0,0294	Dtx1	Mus musculus dextx 1 homolog (Drosophila) (Dtx1), mRNA [NM_008052]
A_55_P2250296	0,78	5,26	0,0109	6330566A10Rik	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230079015 product:unclassifiable, full insert sequence. [AK038970]
A_51_P373890	0,78	5,75	0,0083	Guca1b	Mus musculus guanylate cyclase activator 1B (Guca1b), mRNA [NM_146079]
A_51_P346668	0,78	3,46	0,0491	Irf5	Mus musculus interferon regulatory factor 5 (Irf5), transcript variant 2, mRNA [NM_012057]

A_55_P2088401	0,78	4,61	0,0175	H2-T9	Mus musculus histocompatibility 2, T region locus 9 (H2-T9), mRNA [NM_010399]
A_51_P193794	0,78	4,17	0,0253	Lrp1	Mus musculus low density lipoprotein receptor-related protein 1 (Lrp1), mRNA [NM_008512]
A_51_P505823	0,78	4,68	0,0166	Endod1	Mus musculus endonuclease domain containing 1 (Endod1), mRNA [NM_028013]
A_51_P155763	0,78	5,70	0,0085	Ascc3	Mus musculus activating signal cointegrator 1 complex subunit 3 (Ascc3), mRNA [NM_198007]
A_66_P138999	0,78	4,17	0,0253	Plxna2	plexin A2 [Source:MGI Symbol;Acc:MGI:107684] [ENSMUST00000125381]
A_55_P2137286	0,78	4,84	0,0149	Gm10845	Mus musculus predicted gene 10845 (Gm10845), long non-coding RNA [NR_033535]
A_55_P2129920	0,78	6,12	0,0065	Chd7	Mus musculus chromodomain helicase DNA binding protein 7 (Chd7), mRNA [NM_001277149]
A_55_P2112424	0,78	4,60	0,0177	Madd	Mus musculus MAP-kinase activating death domain (Madd), transcript variant 11, mRNA [NM_001177720]
A_55_P2209308	0,78	4,73	0,0160	9530083012 Rik	Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:9530083012 product:unclassifiable, full insert sequence. [AK079287]
A_66_P126348	0,78	5,54	0,0092	BC030870	Mus musculus cDNA sequence BC030870 (BC030870), long non-coding RNA [NR_033217]
A_55_P1983958	0,78	5,41	0,0100	Gm20746	PREDICTED: Mus musculus predicted gene, 20746 (Gm20746), mRNA [XM_006542883]
A_51_P245796	0,78	5,52	0,0092	Ddit4	Mus musculus DNA-damage-inducible transcript 4 (Ddit4), mRNA [NM_029083]
A_55_P1991214	0,78	5,25	0,0109	Lair1	Mus musculus leukocyte-associated Ig-like receptor 1 (Lair1), transcript variant a, mRNA [NM_001113474]
A_51_P383857	0,78	5,93	0,0073	Prp2	Mus musculus proline rich protein 2 (Prp2), mRNA [NM_031499]
A_55_P2126259	0,77	3,53	0,0464	Slc35e2	Mus musculus solute carrier family 35, member E2 (Slc35e2), mRNA [NM_177186]
A_55_P2046348	0,77	5,47	0,0096	Itpril2	Mus musculus inositol 1,4,5-triphosphate receptor interacting protein-like 2 (Itpril2), mRNA [NM_001033380]
A_51_P512119	0,77	5,40	0,0100	AF067063	Mus musculus cDNA sequence AF067063 (AF067063), mRNA [NM_001001449]
A_55_P2044413	0,77	5,75	0,0083	Cxcl11	Mus musculus chemokine (C-X-C motif) ligand 11 (Cxcl11), transcript variant 1, mRNA [NM_019494]
A_55_P2029528	0,77	5,85	0,0077	H2-K1	Mus musculus MHC class I heavy chain maturation peptide H-2K(d) mRNA, partial cds. [AY496688]
A_55_P2051414	0,77	4,84	0,0148	Axl	Mus musculus AXL receptor tyrosine kinase (Axl), transcript variant 1, mRNA [NM_009465]
A_51_P369862	0,77	6,67	0,0048	Nceh1	Mus musculus neutral cholesterol ester hydrolase 1 (Nceh1), mRNA [NM_178772]
A_51_P459108	0,77	7,47	0,0029	Insl6	Mus musculus insulin-like 6 (Insl6), mRNA [NM_013754]
A_55_P2097161	0,77	4,97	0,0135	Ifitm7	interferon induced transmembrane protein 7 [Source:MGI Symbol;Acc:MGI:1921732] [ENSMUST00000178021]
A_55_P2392485	0,77	4,01	0,0293	9330159F19 Rik	Mus musculus RIKEN cDNA 9330159F19 gene (9330159F19Rik), mRNA [NM_001162537]
A_51_P447976	0,77	6,25	0,0061	Fam46c	Mus musculus family with sequence similarity 46, member C (Fam46c), mRNA [NM_001142952]
A_55_P2043837	0,77	8,51	0,0015	Cmtr1	Mus musculus cap methyltransferase 1 (Cmtr1), mRNA [NM_028791]
A_55_P2060707	0,77	5,93	0,0073	Il15ra	Mus musculus interleukin 15 receptor, alpha chain (Il15ra), transcript variant 2, mRNA [NM_133836]
A_55_P2082989	0,77	3,87	0,0336	5430435G22 Rik	Mus musculus RIKEN cDNA 5430435G22 gene (5430435G22Rik), mRNA [NM_145509]
A_55_P2085766	0,77	5,06	0,0125	Gm6287	Mus musculus 16 days embryo head cDNA, RIKEN full-length enriched library, clone:C130018I06 product:unclassifiable, full insert sequence. [AK081446]
A_66_P119518	0,77	6,98	0,0040	Tuba8	Mus musculus tubulin, alpha 8 (Tuba8), mRNA [NM_017379]
A_55_P2015022	0,77	6,12	0,0065	Gm10856	Mus musculus ES cells cDNA, RIKEN full-length enriched library, clone:C330035010 product:hypothetical protein, full insert sequence. [AK141242]
A_55_P2046812	0,77	4,25	0,0237	Sparc	Mus musculus secreted acidic cysteine rich glycoprotein (Sparc), transcript variant 1, mRNA [NM_009242]
A_55_P2023419	0,77	3,49	0,0480	Gm10687	Mus musculus 0 day neonate lung cDNA, RIKEN full-length enriched library, clone:E030032N08 product:hypothetical protein, full insert sequence. [AK143007]
A_55_P2230913	0,77	5,92	0,0073	Etv6	Mus musculus ets variant gene 6 (TEL oncogene) (Etv6), mRNA [NM_007961]
A_55_P2266744	0,77	4,13	0,0261	B930095M22 Rik	Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:B930095M22 product:unclassifiable, full insert sequence. [AK047590]
A_55_P2386256	0,77	5,30	0,0106	D130062J10 Rik	Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130062J10 product:unclassifiable, full insert sequence. [AK051660]
A_55_P1993640	0,77	5,60	0,0089	Gm6994	Mus musculus predicted gene 6994 (Gm6994), long non-coding RNA [NR_033141]
A_55_P1985159	0,77	5,64	0,0087	Mef2a	Mus musculus myocyte enhancer factor 2A (Mef2a), transcript variant 5, mRNA [NM_001291196]
A_55_P1981884	0,77	4,41	0,0207	Ercc6l2	excision repair cross-complementing rodent repair deficiency, complementation group 6 like 2 [Source:MGI Symbol;Acc:MGI:1923501] [ENSMUST00000109776]
A_55_P1985238	0,76	3,67	0,0404	Gm7980	PREDICTED: Mus musculus predicted gene 7980 (Gm7980), transcript variant X1, mRNA [XM_006519805]
A_55_P1960238	0,76	6,34	0,0058	Slc2a6	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 6 (Slc2a6), transcript variant 1, mRNA [NM_172659]
A_66_P128927	0,76	3,67	0,0405	Gm6306	PREDICTED: Mus musculus predicted gene 6306 (Gm6306), mRNA [XM_006500499]
A_55_P2156638	0,76	5,30	0,0106	Gpr114	Mus musculus G protein-coupled receptor 114 (Gpr114), transcript variant 1, mRNA [NM_001145972]
A_55_P2137701	0,76	4,14	0,0258	Gm13247	Mus musculus predicted gene 13247 (Gm13247), transcript variant 1, mRNA [NM_001243138]



A_55_P2019113	0,76	7,27	0,0033	Apol7b	Mus musculus apolipoprotein L 7b (Apol7b), mRNA [NM_001024848]
A_55_P2211164	0,76	5,14	0,0120	5330406M23 Rik	Mus musculus adult male pituitary gland cDNA, RIKEN full-length enriched library, clone:5330406M23 product:unclassifiable, full insert sequence. [AK017236]
A_55_P1966583	0,76	4,99	0,0132	Bpifc	Mus musculus BPI fold containing family C (Bpifc), mRNA [NM_177772]
A_55_P1990210	0,76	4,57	0,0182	Scsep1	Mus musculus serine carboxypeptidase 1 (Scsep1), mRNA [NM_029023]
A_51_P314397	0,76	4,58	0,0181	Crip2	Mus musculus cysteine rich protein 2 (Crip2), mRNA [NM_024223]
A_51_P254646	0,76	4,14	0,0259	Jdp2	Mus musculus Jun dimerization protein 2 (Jdp2), transcript variant 1, mRNA [NM_030887]
A_55_P1954986	0,76	7,06	0,0038	Elk1	Mus musculus ELK1, member of ETS oncogene family (Elk1), mRNA [NM_007922]
A_55_P2042993	0,76	4,57	0,0183	Arl6ip6	Mus musculus ADP-ribosylation factor-like 6 interacting protein 6 (Arl6ip6), mRNA [NM_022989]
A_55_P2027361	0,76	4,34	0,0220	Irak1bp1	Mus musculus interleukin-1 receptor-associated kinase 1 binding protein 1 (Irak1bp1), transcript variant 1, mRNA [NM_022986]
A_55_P2123566	0,76	4,96	0,0137	Sipa1l2	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930515A19 product:hypothetical protein, full insert sequence. [AK132916]
A_55_P1983095	0,76	7,33	0,0032	Adam19	Mus musculus a disintegrin and metallopeptidase domain 19 (meltrin beta) (Adam19), transcript variant 3, mRNA [NM_001291891]
A_55_P1986552	0,76	5,31	0,0106	Mcam	Mus musculus melanoma cell adhesion molecule (Mcam), mRNA [NM_023061]
A_55_P2034705	0,76	7,14	0,0036	Nmi	Mus musculus N-myc (and STAT) interactor (Nmi), transcript variant 1, mRNA [NM_001141949]
A_55_P2122429	0,76	5,21	0,0113	Cym	Mus musculus chymosin (Cym), mRNA [NM_001111143]
A_55_P2155727	0,76	5,12	0,0120	Mafa	Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein A (avian) (Mafa), mRNA [NM_194350]
A_55_P1965233	0,76	5,41	0,0100	Sh3tc1	Mus musculus SH3 domain and tetratricopeptide repeats 1 (Sh3tc1), mRNA [NM_194344]
A_51_P108459	0,76	7,26	0,0033	Gpr65	Mus musculus G-protein coupled receptor 65 (Gpr65), mRNA [NM_008152]
A_55_P1992104	0,76	3,86	0,0337	Ptprj	Mus musculus protein tyrosine phosphatase, receptor type, J (Ptprj), transcript variant 2, mRNA [NM_001135657]
A_55_P2092730	0,76	6,16	0,0064	Wdfy1	Mus musculus WD repeat and FYVE domain containing 1 (Wdfy1), transcript variant 1, mRNA [NM_00111279]
A_55_P2056325	0,76	4,41	0,0206	Anxa3	Mus musculus annexin A3 (Anxa3), mRNA [NM_013470]
A_55_P1954987	0,76	6,21	0,0063	Slc10a1	Mus musculus solute carrier family 10 (sodium/bile acid cotransporter family), member 1 (Slc10a1), transcript variant 2, mRNA [NM_011387]
A_51_P120093	0,76	6,07	0,0067	Snx10	Mus musculus sorting nexin 10 (Snx10), transcript variant 1, mRNA [NM_028035]
A_55_P2062058	0,75	4,09	0,0272	Dbnnd2	Mus musculus dysbindin (dystrobrevin binding protein 1) domain containing 2 (Dbnnd2), transcript variant 2, mRNA [NM_026797]
A_55_P2156785	0,75	5,68	0,0085	Ppfi3	Mus musculus protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 3 (Ppfi3), mRNA [NM_029741]
A_55_P2107203	0,75	5,48	0,0095	Gpr137b	Mus musculus G protein-coupled receptor 137B (Gpr137b), mRNA [NM_031999]
A_55_P2175400	0,75	6,47	0,0055	Zfp467	Mus musculus zinc finger protein 467 (Zfp467), transcript variant 1, mRNA [NM_020589]
A_51_P447258	0,75	4,51	0,0191	Alox12b	Mus musculus arachidonate 12-lipoxygenase, 12R type (Alox12b), mRNA [NM_009659]
A_55_P2080562	0,75	4,07	0,0276	Arhgap26	Mus musculus Rho GTPase activating protein 26 (Arhgap26), mRNA [NM_175164]
A_55_P1981494	0,75	6,00	0,0071	LOC102641349	PREDICTED: Mus musculus h-2 class I histocompatibility antigen, L-D alpha chain-like (LOC102641349), mRNA [XM_006544512]
A_51_P490305	0,75	3,61	0,0424	Ifi30	Mus musculus interferon gamma inducible protein 30 (Ifi30), mRNA [NM_023065]
A_55_P1981519	0,75	4,25	0,0238	Gm13580	Mus musculus predicted gene 13580 (Gm13580), long non-coding RNA [NR_046065]
A_55_P2040962	0,75	4,02	0,0291	Gm1604b	Mus musculus predicted gene 1604b (Gm1604b), mRNA [NM_001033442]
A_55_P2099890	0,75	4,71	0,0162	Atxn7	Mus musculus ataxin 7 (Atxn7), mRNA [NM_139227]
A_55_P2424767	0,75	5,22	0,0111	Hecw1	Mus musculus HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1 (Hecw1), mRNA [NM_001081348]
A_66_P104815	0,75	4,21	0,0245	Ecm1	Mus musculus extracellular matrix protein 1 (Ecm1), transcript variant 1, mRNA [NM_007899]
A_55_P1961395	0,75	6,46	0,0055	Pdpn	Mus musculus podoplanin (Pdpn), transcript variant 1, mRNA [NM_010329]
A_55_P2129691	0,75	5,96	0,0072	AB124611	Mus musculus cDNA sequence AB124611 (AB124611), transcript variant 1, mRNA [NM_001198794]
A_66_P104422	0,75	4,09	0,0272	Ckap4	Mus musculus cytoskeleton-associated protein 4 (Ckap4), mRNA [NM_175451]
A_55_P1998962	0,75	5,29	0,0106	Oas1b	Mus musculus 2'-5' oligoadenylate synthetase 1B (Oas1b), mRNA [NM_001083925]
A_55_P2054332	0,75	4,74	0,0159	Ephb3	Mus musculus Eph receptor B3 (Ephb3), mRNA [NM_010143]
A_51_P293688	0,75	5,95	0,0072	Rab32	Mus musculus RAB32, member RAS oncogene family (Rab32), mRNA [NM_026405]
A_51_P260683	0,75	5,88	0,0075	Rgs1	Mus musculus regulator of G-protein signaling 1 (Rgs1), mRNA [NM_015811]
A_51_P443508	0,75	5,90	0,0075	Ppa1	Mus musculus pyrophosphatase (inorganic) 1 (Ppa1), mRNA [NM_026438]
A_55_P2045163	0,75	5,36	0,0103	Ehmt1	Mus musculus euchromatic histone methyltransferase 1 (Ehmt1), transcript variant 1, mRNA [NM_001012518]
A_51_P415225	0,74	3,48	0,0483	Zfp105	Mus musculus zinc finger protein 105 (Zfp105), mRNA [NM_009544]

A_55_P2069052	0,74	5,48	0,0095	Sacs	Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230399B09 product:hypothetical protein, full insert sequence. [AK046501]
A_55_P2160387	0,74	6,08	0,0067	Cxcl11	Mus musculus chemokine (C-X-C motif) ligand 11 (Cxcl11), transcript variant 1, mRNA [NM_019494]
A_52_P507382	0,74	5,27	0,0108	Unc93b1	Mus musculus unc-93 homolog B1 (C. elegans) (Unc93b1), transcript variant 1, mRNA [NM_019449]
A_55_P2102002	0,74	5,54	0,0092	Noc3l	Mus musculus nucleolar complex associated 3 homolog (S. cerevisiae) (Noc3l), mRNA [NM_021315]
A_55_P1996963	0,74	3,47	0,0487	Mtcl1	Mus musculus microtubule crosslinking factor 1 (Mtcl1), transcript variant 1, mRNA [NM_001114098]
A_55_P2051991	0,74	3,60	0,0431	Brsk1	Mus musculus BR serine/threonine kinase 1 (Brsk1), transcript variant 1, mRNA [NM_001003920]
A_51_P211506	0,74	4,02	0,0290	Muc20	Mus musculus mucin 20 (Muc20), transcript variant 2, mRNA [NM_146071]
A_55_P1960735	0,74	5,50	0,0094	Gdf15	Mus musculus growth differentiation factor 15 (Gdf15), mRNA [NM_011819]
A_51_P114966	0,74	4,37	0,0214	Prss37	Mus musculus protease, serine 37 (Prss37), mRNA [NM_026317]
A_55_P2161775	0,74	7,51	0,0029	Prr3	Mus musculus proline-rich polypeptide 3 (Prr3), transcript variant 1, mRNA [NM_145487]
A_55_P2034058	0,74	4,37	0,0214	Prh1	Mus musculus proline rich protein HaeIII subfamily 1 (Prh1), mRNA [NM_011174]
A_55_P2131820	0,74	4,46	0,0199	A530006G24 Rik	Mus musculus RIKEN cDNA A530006G24 gene (A530006G24Rik), long non-coding RNA [NR_046014]
A_55_P2029235	0,74	4,49	0,0195	Btn1a1	Mus musculus butyrophilin, subfamily 1, member A1 (Btn1a1), mRNA [NM_013483]
A_52_P315976	0,74	4,13	0,0263	Tpm2	Mus musculus tropomyosin 2, beta (Tpm2), transcript variant 1, mRNA [NM_009416]
A_51_P359603	0,74	8,06	0,0020	Itgb7	Mus musculus integrin beta 7 (Itgb7), mRNA [NM_013566]
A_55_P2052563	0,74	5,89	0,0075	Id1	Mus musculus inhibitor of DNA binding 1 (Id1), mRNA [NM_010495]
A_55_P2158384	0,74	7,09	0,0037	Aanat	Mus musculus arylalkylamine N-acetyltransferase (Aanat), transcript variant 1, mRNA [NM_009591]
A_55_P2115028	0,74	5,56	0,0091	Fastkd1	Mus musculus FAST kinase domains 1 (Fastkd1), mRNA [NM_177244]
A_51_P219789	0,74	7,72	0,0025	H2-Q2	Mus musculus histocompatibility 2, Q region locus 2 (H2-Q2), mRNA [NM_010392]
A_55_P2246650	0,74	5,18	0,0115	9330159M07 Rik	Mus musculus RIKEN cDNA 9330159M07 gene (9330159M07Rik), transcript variant 1, long non-coding RNA [NR_037982]
A_55_P2112599	0,74	5,40	0,0101	Lgals8	Mus musculus lectin, galactose binding, soluble 8 (Lgals8), transcript variant 4, mRNA [NM_001291057]
A_55_P1997300	0,74	5,37	0,0102	Mtfr2	Mus musculus mitochondrial fission regulator 2 (Mtfr2), mRNA [NM_027930]
A_55_P2187121	0,74	7,00	0,0040	Gpr137b-ps	Mus musculus G protein-coupled receptor 137B, pseudogene (Gpr137b-ps), non-coding RNA [NR_003568]
A_55_P2010152	0,74	5,17	0,0116	Sell	Mus musculus selectin, lymphocyte (Sell), transcript variant 2, mRNA [NM_001164059]
A_55_P2055147	0,74	4,11	0,0267	Mast1	Mus musculus microtubule associated serine/threonine kinase 1 (Mast1), mRNA [NM_019945]
A_55_P2208260	0,74	6,29	0,0061	D230019N24 Rik	Mus musculus 12 days embryo eyeball cDNA, RIKEN full-length enriched library, clone:D230019N24 product:unclassifiable, full insert sequence. [AK051927]
A_51_P136294	0,73	4,00	0,0297	Ms4a4b	Mus musculus membrane-spanning 4-domains, subfamily A, member 4B (Ms4a4b), mRNA [NM_021718]
A_51_P242166	0,73	7,89	0,0023	Lap3	Mus musculus leucine aminopeptidase 3 (Lap3), mRNA [NM_024434]
A_55_P2325803	0,73	5,53	0,0092	Tnfrsf11a	Mus musculus tumor necrosis factor receptor superfamily, member 11a (Tnfrsf11a), mRNA [NM_009399]
A_51_P267700	0,73	4,62	0,0174	Gkn3	Mus musculus gastrophilic 3 (Gkn3), mRNA [NM_026860]
A_55_P2277825	0,73	4,03	0,0286	E430010N07 Rik	Mus musculus 2 days neonate thymus thymic cells cDNA, RIKEN full-length enriched library, clone:E430010N07 product:unclassifiable, full insert sequence. [AK088305]
A_55_P2131088	0,73	5,10	0,0122	Vwa5a	Mus musculus von Willebrand factor A domain containing 5A (Vwa5a), transcript variant 1, mRNA [NM_172767]
A_51_P144264	0,73	6,19	0,0063	Klf2	Mus musculus Kruppel-like factor 2 (lung) (Klf2), mRNA [NM_008452]
A_51_P303180	0,73	4,34	0,0219	Fam114a1	Mus musculus family with sequence similarity 114, member A1 (Fam114a1), mRNA [NM_026667]
A_55_P2097329	0,73	5,87	0,0076	Sgsm3	small G protein signaling modulator 3 [Source:MGI Symbol;Acc:MGI:1916329] [ENSIMUST00000156064]
A_66_P114627	0,73	3,74	0,0378	S100a16	Mus musculus S100 calcium binding protein A16 (S100a16), mRNA [NM_026416]
A_55_P2002772	0,73	3,99	0,0298	1810053B23 Rik	Mus musculus RIKEN cDNA 1810053B23 gene (1810053B23Rik), transcript variant 6, long non-coding RNA [NR_040491]
A_52_P566396	0,73	4,26	0,0235	Rnf122	Mus musculus ring finger protein 122 (Rnf122), mRNA [NM_175136]
A_55_P2156006	0,73	3,50	0,0475	Kcnk15	Mus musculus potassium channel, subfamily K, member 15 (Kcnk15), mRNA [NM_001030292]
A_55_P2156394	0,73	5,97	0,0072	Btbd16	Mus musculus BTB (POZ) domain containing 16 (Btbd16), mRNA [NM_001081038]
A_55_P2174582	0,72	3,77	0,0369	Urah	Mus musculus urate (5-hydroxyiso-) hydrolase (Urah), mRNA [NM_029821]
A_55_P1987499	0,72	5,91	0,0074	Pttg1	Mus musculus pituitary tumor-transforming gene 1 (Pttg1), transcript variant 2, mRNA [NM_013917]
A_55_P2038525	0,72	4,01	0,0293	C3	Mus musculus complement component 3 (C3), mRNA [NM_009778]
A_55_P2052555	0,72	5,12	0,0120	Dpysl5	Mus musculus dihydropyrimidinase-like 5 (Dpysl5), mRNA [NM_023047]
A_55_P2024600	0,72	5,91	0,0074	Zfp658	Mus musculus zinc finger protein 658 (Zfp658), mRNA [NM_001008549]



A_55_P2162404	0,72	5,46	0,0097	LOC102637389	PREDICTED: Mus musculus uncharacterized LOC102637389 (LOC102637389), transcript variant X5, ncRNA [XR_402161]
A_55_P1982737	0,72	6,46	0,0055	Dnajc5	Mus musculus Dnaj (Hsp40) homolog, subfamily C, member 5 (Dnajc5), transcript variant 1, mRNA [NM_001271585]
A_51_P341465	0,72	4,30	0,0227	Csf2ra	Mus musculus colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage) (Csf2ra), mRNA [NM_009970]
A_55_P2064043	0,72	5,04	0,0128	Cd44	Mus musculus CD44 antigen (Cd44), transcript variant 1, mRNA [NM_009851]
A_55_P2025851	0,72	4,78	0,0155	Heatr3	Mus musculus HEAT repeat containing 3 (Heatr3), mRNA [NM_172757]
A_55_P2051521	0,72	3,86	0,0338	Gm4146	PREDICTED: Mus musculus predicted gene 4146 (Gm4146), transcript variant X1, misc_RNA [XR_386212]
A_55_P2077068	0,72	4,75	0,0158	Malt1	Mus musculus mucosa associated lymphoid tissue lymphoma translocation gene 1 (Malt1), mRNA [NM_172833]
A_55_P2066116	0,72	5,69	0,0085	Bcl3	Mus musculus B cell leukemia/lymphoma 3 (Bcl3), mRNA [NM_033601]
A_55_P1966660	0,72	8,39	0,0017	LOC547349	Mus musculus MHC class I family member (LOC547349), mRNA [NM_001025208]
A_55_P2114779	0,72	3,73	0,0384	Greb1	Mus musculus gene regulated by estrogen in breast cancer protein (Greb1), transcript variant 1, mRNA [NM_015764]
A_55_P1971963	0,72	4,46	0,0199	Tmem176b	Mus musculus transmembrane protein 176B (Tmem176b), transcript variant 1, mRNA [NM_023056]
A_55_P2066878	0,72	3,47	0,0490	Kcnj13	Mus musculus potassium inwardly-rectifying channel, subfamily J, member 13 (Kcnj13), mRNA [NM_001110227]
A_55_P2011151	0,72	4,29	0,0229	Tmprss3	Mus musculus transmembrane protease, serine 3 (Tmprss3), transcript variant 1, mRNA [NM_001163776]
A_55_P1966372	0,72	5,14	0,0119	Srek1	Mus musculus splicing regulatory glutamine/lysine-rich protein 1 (Srek1), mRNA [NM_172592]
A_55_P2055727	0,72	4,47	0,0197	Vmn1r52	Mus musculus vomeronasal 1 receptor 52 (Vmn1r52), mRNA [NM_053222]
A_55_P1956267	0,72	4,45	0,0199	Syt11	Mus musculus synaptotagmin XI (Syt11), mRNA [NM_018804]
A_55_P1975690	0,71	4,06	0,0280	Bicc1	Mus musculus bicaudal C homolog 1 (Drosophila) (Bicc1), mRNA [NM_031397]
A_55_P1987926	0,71	4,49	0,0195	Vmn1r122	Mus musculus vomeronasal 1 receptor 122 (Vmn1r122), mRNA [NM_001166714]
A_55_P2039463	0,71	4,01	0,0292	Timmcd1	Mus musculus translocase of inner mitochondrial membrane domain containing 1 (Timmcd1), mRNA [NM_024273]
A_55_P2038187	0,71	5,91	0,0074	BC051019	Mus musculus cDNA sequence BC051019 (BC051019), mRNA [NM_001040700]
A_55_P2033120	0,71	7,88	0,0023	Srxn1	Mus musculus sulfiredoxin 1 homolog (S. cerevisiae) (Srxn1), mRNA [NM_029688]
A_66_P116632	0,71	6,22	0,0063	Mafg	Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian) (Mafg), mRNA [NM_010756]
A_55_P2210575	0,71	5,02	0,0130	A830073021 Rik	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730020G15 product:unclassifiable, full insert sequence. [AK080460]
A_55_P2050773	0,71	4,05	0,0283	LOC10004852	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230085I18 product:unclassifiable, full insert sequence. [AK039014]
A_55_P2042487	0,71	5,34	0,0105	Dpysl3	Mus musculus dihydropyrimidinase-like 3 (Dpysl3), transcript variant 3, mRNA [NM_001291455]
A_55_P1956063	0,71	5,84	0,0077	Pbld1	Mus musculus phenazine biosynthesis-like protein domain containing 1 (Pbld1), mRNA [NM_026701]
A_55_P2153431	0,71	5,13	0,0120	Ralgds	Mus musculus ral guanine nucleotide dissociation stimulator (Ralgds), transcript variant 3, mRNA [NM_009058]
A_55_P1995092	0,71	6,94	0,0042	H2-Q10	Mus musculus histocompatibility 2, Q region locus 10 (H2-Q10), mRNA [NM_010391]
A_55_P1968606	0,71	4,64	0,0171	Ppm1k	Mus musculus protein phosphatase 1K (PP2C domain containing) (Ppm1k), mRNA [NM_175523]
A_51_P140347	0,71	3,56	0,0450	Slc4a9	Mus musculus solute carrier family 4, sodium bicarbonate cotransporter, member 9 (Slc4a9), transcript variant 3, mRNA [NM_172830]
A_51_P306067	0,71	6,60	0,0051	Lpp	Mus musculus LIM domain containing preferred translocation partner in lipoma (Lpp), transcript variant 1, mRNA [NM_178665]
A_55_P2181738	0,71	3,72	0,0388	Lyz1	Mus musculus lysozyme 1 (Lyz1), mRNA [NM_013590]
A_55_P2147886	0,71	7,39	0,0031	Fam118a	Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230014M12 product:hypothetical protein, full insert sequence. [AK082151]
A_55_P2024679	0,71	5,43	0,0099	Gm10765	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930441B08 product:hypothetical protein, full insert sequence. [AK132848]
A_55_P1985850	0,71	5,52	0,0092	Timp1	Mus musculus tissue inhibitor of metalloproteinase 1 (Timp1), transcript variant 1, mRNA [NM_001044384]
A_55_P2159555	0,71	4,89	0,0144	Adams4	a disintegrin-like and metallopeptidase (repolysin type) with thrombospondin type 1 motif, 4 [Source:MGI Symbol;Acc:MGI:1339949] [ENSMUST00000111315]
A_55_P2153797	0,71	4,19	0,0249	Prnp	Mus musculus prion protein (Prnp), transcript variant 2, mRNA [NM_001278256]
A_55_P1974961	0,71	4,95	0,0138	Plekhg3	Mus musculus pleckstrin homology domain containing, family G (with RhoGef domain) member 3 (Plekhg3), mRNA [NM_153804]
A_55_P1964509	0,71	6,16	0,0064	Lcn12	Mus musculus lipocalin 12 (Lcn12), mRNA [NM_029958]
A_52_P31011	0,71	4,69	0,0165	Cep162	Mus musculus centrosomal protein 162 (Cep162), mRNA [NM_199316]
A_55_P2045549	0,71	6,87	0,0043	Dpy19l1	Mus musculus dpy-19-like 1 (C. elegans) (Dpy19l1), mRNA [NM_172920]
A_51_P381558	0,70	5,09	0,0123	Rasa4	Mus musculus RAS p21 protein activator 4 (Rasa4), transcript variant 1, mRNA [NM_133914]
A_55_P2076555	0,70	3,62	0,0421	Hsd17b13	Mus musculus hydroxysteroid (17-beta) dehydrogenase 13 (Hsd17b13), transcript variant 2, mRNA [NM_198030]
A_55_P2042870	0,70	4,76	0,0157	Aoc2	Mus musculus amine oxidase, copper containing 2 (retina-specific) (Aoc2), mRNA [NM_178932]

A_55_P2275249	0,70	4,24	0,0239	Th	Mus musculus tyrosine hydroxylase (Th), mRNA [NM_009377]
A_51_P225592	0,70	6,64	0,0049	Tpm4	Mus musculus tropomyosin 4 (Tpm4), mRNA [NM_001001491]
A_55_P1992099	0,70	3,85	0,0343	Ptprr	Mus musculus protein tyrosine phosphatase, receptor type, I (Ptprr), transcript variant 1, mRNA [NM_008982]
A_55_P1952882	0,70	5,32	0,0106	Cyp4f18	Mus musculus cytochrome P450 CYP4F18 mRNA, complete cds. [AF233647]
A_55_P2063251	0,70	4,30	0,0227	Dusp3	Mus musculus dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related) (Dusp3), mRNA [NM_028207]
A_66_P123635	0,70	4,09	0,0272	Csf2rb	Mus musculus colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) (Csf2rb), mRNA [NM_007780]
A_52_P86693	0,70	5,72	0,0084	Ifi27	Mus musculus interferon, alpha-inducible protein 27 (Ifi27), transcript variant 1, mRNA [NM_026790]
A_55_P2065866	0,70	3,94	0,0313	Cygb	Mus musculus cytoglobin (Cygb), mRNA [NM_030206]
A_55_P2028595	0,70	4,22	0,0242	AW551984	Mus musculus expressed sequence AW551984 (AW551984), transcript variant 1, mRNA [NM_001199556]
A_66_P136228	0,70	5,98	0,0071	Rai14	Mus musculus retinoic acid induced 14 (Rai14), transcript variant 1, mRNA [NM_030690]
A_55_P2170514	0,70	3,47	0,0487	Sfn	Mus musculus stratifin (Sfn), mRNA [NM_018754]
A_55_P2105271	0,70	5,23	0,0111	Pdlim7	Mus musculus PDZ and LIM domain 7 (Pdlim7), transcript variant a, mRNA [NM_001114088]
A_52_P585751	0,70	6,39	0,0057	Gns	Mus musculus glucosamine (N-acetyl)-6-sulfatase (Gns), mRNA [NM_029364]
A_55_P2093940	0,70	5,87	0,0076	Zfp408	Mus musculus zinc finger protein 408 (Zfp408), mRNA [NM_001033451]
A_66_P125392	0,70	5,34	0,0105	Atp8b4	Mus musculus ATPase, class I, type 8B, member 4 (Atp8b4), mRNA [NM_001080944]
A_55_P2071402	0,69	3,91	0,0323	Pde3a	Mus musculus phosphodiesterase 3A, cGMP inhibited (Pde3a), mRNA [NM_018779]
A_55_P2186230	0,69	3,75	0,0376	Gm3317	Mus musculus predicted gene 3317 (Gm3317), mRNA [NM_001242941]
A_55_P2137121	0,69	4,79	0,0154	Sp140	Mus musculus Sp140 nuclear body protein (Sp140), mRNA [NM_001013817]
A_55_P2152009	0,69	5,44	0,0098	Tesc	Mus musculus tescalcin (Tesc), mRNA [NM_021344]
A_55_P1967133	0,69	6,84	0,0044	Ppp1r3b	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 3B (Ppp1r3b), mRNA [NM_177741]
A_55_P1972663	0,69	5,06	0,0126	Smok3b	Mus musculus sperm motility kinase 3B (Smok3b), mRNA [NM_001039889]
A_55_P2070352	0,69	5,26	0,0109	Csf3r	Mus musculus colony stimulating factor 3 receptor (granulocyte) (Csf3r), transcript variant 1, mRNA [NM_007782]
A_55_P2052834	0,69	3,47	0,0490	Lst1	Mus musculus leukocyte specific transcript 1 (Lst1), mRNA [NM_010734]
A_55_P2072000	0,69	4,56	0,0184	Pcmdt1	Mus musculus protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 1 (Pcmdt1), mRNA [NM_183028]
A_51_P359516	0,69	3,49	0,0477	Rtn4rl2	Mus musculus reticulon 4 receptor-like 2 (Rtn4rl2), mRNA [NM_199223]
A_55_P1990919	0,69	6,41	0,0056	Msrbl	Mus musculus methionine sulfoxide reductase B1 (Msrbl), mRNA [NM_013759]
A_55_P1968245	0,69	4,27	0,0234	Ftl1	Mus musculus ferritin light chain 1 (Ftl1), mRNA [NM_010240]
A_55_P2167620	0,69	4,71	0,0162	6330416G13 Rik	PREDICTED: Mus musculus RIKEN cDNA 6330416G13 gene (6330416G13Rik), transcript variant X9, mRNA [XM_006537874]
A_55_P2163857	0,69	4,57	0,0183	Trim12c	Mus musculus tripartite motif-containing 12C (Trim12c), transcript variant 1, mRNA [NM_001146007]
A_55_P2065731	0,69	6,65	0,0049	Medag	Mus musculus mesenteric estrogen dependent adipogenesis (Medag), mRNA [NM_027519]
A_55_P2125351	0,69	4,25	0,0237	Sema6d	Mus musculus sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D (Sema6d), transcript variant 7, mRNA [NM_001291000]
A_55_P2021413	0,69	5,55	0,0092	Celf4	Mus musculus CUGBP, Elav-like family member 4 (Celf4), transcript variant 1, mRNA [NM_001146292]
A_55_P1999790	0,69	4,88	0,0145	Pkdcc	Mus musculus protein kinase domain containing, cytoplasmic (Pkdcc), mRNA [NM_134117]
A_66_P128079	0,69	3,94	0,0313	Krt8	Mus musculus blastocyst blastocyst cDNA, RIKEN full-length enriched library, clone:11C0017101 product:keratin complex 2, basic, gene 8, full insert sequence. [AK166854]
A_55_P2033805	0,69	4,39	0,0210	A230051N06 Rik	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730083F13 product:unclassifiable, full insert sequence. [AK080548]
A_51_P298843	0,69	4,65	0,0170	Pcbd2	Mus musculus pterin 4 alpha carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2 (Pcbd2), mRNA [NM_028281]
A_55_P2084251	0,68	3,98	0,0300	Kcna4	Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 4 (Kcna4), mRNA [NM_021275]
A_55_P1955998	0,68	6,38	0,0057	Nlrp1a	Mus musculus NLR family, pyrin domain containing 1A (Nlrp1a), mRNA [NM_001004142]
A_66_P110633	0,68	5,63	0,0088	Apol9b	Mus musculus apolipoprotein L 9b (Apol9b), transcript variant 1, mRNA [NM_001168660]
A_55_P2286503	0,68	5,19	0,0114	A930001C03 Rik	Mus musculus adult retina cDNA, RIKEN full-length enriched library, clone:A930001C03 product:unclassifiable, full insert sequence. [AK044205]
A_66_P108178	0,68	4,29	0,0229	Lin52	Mus musculus lin-52 homolog (C. elegans) (Lin52), mRNA [NM_173756]
A_55_P2082979	0,68	5,57	0,0090	Irak2	Mus musculus interleukin-1 receptor-associated kinase 2 (Irak2), transcript variant 1, mRNA [NM_172161]
A_52_P602091	0,68	3,84	0,0345	Csf1r	Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA [NM_001037859]
A_51_P425048	0,68	5,17	0,0116	H2-Q2	Mus musculus histocompatibility 2, Q region locus 2 (H2-Q2), mRNA [NM_010392]
A_55_P2060680	0,68	5,57	0,0090	Acsf2	Mus musculus acyl-CoA synthetase family member 2 (Acsf2), mRNA [NM_153807]

A_55_P1998761	0,68	4,71	0,0162	Adck4	Mus musculus aarF domain containing kinase 4 (Adck4), mRNA [NM_133770]
A_52_P380329	0,68	4,91	0,0141	Papd7	Mus musculus PAP associated domain containing 7 (Papd7), transcript variant 1, mRNA [NM_198600]
A_55_P2050353	0,68	5,98	0,0071	Prmp5	Mus musculus proline-rich protein MP5 (Prmp5), mRNA [NM_001024705]
A_55_P2157838	0,68	6,18	0,0064	LOC102633269	PREDICTED: Mus musculus PCNA-associated factor-like (LOC102633269), partial mRNA [XM_006508438]
A_55_P1974193	0,68	5,20	0,0113	Ptges	Mus musculus prostaglandin E synthase (Ptges), mRNA [NM_022415]
A_52_P263095	0,68	4,21	0,0244	Ahnak	Mus musculus AHNAK nucleoprotein (desmoyokin) (Ahnak), transcript variant 1, mRNA [NM_009643]
A_55_P2159895	0,68	4,13	0,0261	Zfp52	Mus musculus zinc finger protein 52 (Zfp52), mRNA [NM_144515]
A_55_P2067463	0,68	4,20	0,0247	1700110I01Rik	Mus musculus RIKEN cDNA 1700110I01 gene (1700110I01Rik), long non-coding RNA [NR_038059]
A_55_P1962303	0,68	4,66	0,0169	Hba-a1	Mus musculus hemoglobin alpha, adult chain 1 (Hba-a1), mRNA [NM_008218]
A_55_P1959152	0,67	4,20	0,0246	2410141K09Rik	Mus musculus RIKEN cDNA 2410141K09 gene (2410141K09Rik), transcript variant 1, mRNA [NM_001290196]
A_55_P2084980	0,67	3,56	0,0447	Dcaf12l2	Mus musculus DDB1 and CUL4 associated factor 12-like 2 (Dcaf12l2), mRNA [NM_175539]
A_55_P2148921	0,67	3,50	0,0475	Zfp423	Mus musculus zinc finger protein 423 (Zfp423), mRNA [NM_033327]
A_55_P1988388	0,67	7,09	0,0037	Gm2347	Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clone:4831429B21 product:unclassifiable, full insert sequence. [AK029220]
A_51_P415688	0,67	5,84	0,0077	Gng12	Mus musculus guanine nucleotide binding protein (G protein), gamma 12 (Gng12), transcript variant 2, mRNA [NM_025278]
A_55_P1956762	0,67	3,83	0,0347	Sgms1	sphingomyelin synthase 1 [Source:MGI Symbol;Acc:MGI:2444110] [ENSMUST00000124012]
A_51_P405397	0,67	5,54	0,0092	Ecm1	Mus musculus extracellular matrix protein 1 (Ecm1), transcript variant 1, mRNA [NM_007899]
A_52_P641758	0,67	6,34	0,0058	Ggct	Mus musculus gamma-glutamyl cyclotransferase (Ggct), mRNA [NM_026637]
A_66_P133328	0,67	5,64	0,0087	Tpd52	Mus musculus tumor protein D52 (Tpd52), transcript variant 1, mRNA [NM_001025261]
A_55_P1993733	0,67	3,67	0,0404	Gm2824	PREDICTED: Mus musculus predicted gene 2824 (Gm2824), transcript variant X2, ncRNA [XR_396258]
A_55_P2094901	0,67	6,26	0,0061	Phyh1	phytanoyl-CoA dioxygenase domain containing 1 [Source:MGI Symbol;Acc:MGI:3612860] [ENSMUST00000085290]
A_52_P365011	0,67	4,53	0,0189	Fes	Mus musculus feline sarcoma oncogene (Fes), mRNA [NM_010194]
A_55_P2409570	0,67	5,25	0,0109	Luc7l2	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630067L13 product:unclassifiable, full insert sequence. [AK042182]
A_55_P2010097	0,67	4,46	0,0199	Mup2	Mus musculus major urinary protein 2 (Mup2), transcript variant 2, mRNA [NM_001045550]
A_55_P2128153	0,67	4,33	0,0222	Col6a1	Mus musculus collagen, type VI, alpha 1 (Col6a1), mRNA [NM_009933]
A_55_P2078994	0,67	5,22	0,0112	Lrrc31	Mus musculus adult male colon cDNA, RIKEN full-length enriched library, clone:9030008F08 product:hypothetical Leucine-rich repeat/Leucine-rich repeat, ribonuclease inhibitor subtype containing protein, full insert sequence. [AK136409]
A_55_P2185148	0,67	3,68	0,0401	Mettl7a3	Mus musculus methyltransferase like 7A3 (Mettl7a3), mRNA [NM_001081471]
A_51_P518893	0,67	5,86	0,0076	Ccin	Mus musculus calicin (Ccin), mRNA [NM_001002787]
A_55_P2015520	0,67	6,55	0,0052	Plekha1	Mus musculus pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1 (Plekha1), mRNA [NM_133942]
A_55_P1999601	0,67	6,29	0,0061	Gm10631	Mus musculus 10 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:6530432O13 product:hypothetical protein, full insert sequence. [AK135158]
A_55_P1985519	0,67	5,43	0,0099	BC028528	cDNA sequence BC028528 [Source:MGI Symbol;Acc:MGI:2385885] [ENSMUST00000036360]
A_55_P2083411	0,67	4,44	0,0200	Cyp4f18	Mus musculus cytochrome P450, family 4, subfamily f, polypeptide 18 (Cyp4f18), mRNA [NM_024444]
A_55_P2139763	0,67	8,42	0,0016	Trim56	Mus musculus tripartite motif-containing 56 (Trim56), mRNA [NM_201373]
A_55_P2021981	0,67	4,82	0,0150	Ctsw	Mus musculus cathepsin W (Ctsw), mRNA [NM_009985]
A_55_P1979053	0,67	6,39	0,0057	Atp6v0c	Mus musculus ATPase, H+ transporting, lysosomal V0 subunit C (Atp6v0c), mRNA [NM_009729]
A_55_P2139385	0,67	4,50	0,0193	Gm12070	Mus musculus predicted gene 12070 (Gm12070), non-coding RNA [NR_002890]
A_55_P2062187	0,67	3,91	0,0321	Shank1	Mus musculus SH3/ankyrin domain gene 1 (Shank1), mRNA [NM_001034115]
A_52_P638895	0,66	5,17	0,0116	Vegfa	Mus musculus vascular endothelial growth factor A (Vegfa), transcript variant 1, mRNA [NM_001025250]
A_51_P376347	0,66	4,29	0,0230	Hebp1	Mus musculus heme binding protein 1 (Hebp1), mRNA [NM_013546]
A_55_P2060444	0,66	5,29	0,0106	Apopt1	Mus musculus apoptogenic, mitochondrial 1 (Apopt1), transcript variant 2, mRNA [NM_026511]
A_55_P2379624	0,66	3,87	0,0336	BC037438	Mus musculus cDNA sequence BC037438, mRNA (cDNA clone IMAGE:3497929), partial cds. [BC037438]
A_55_P2027259	0,66	5,36	0,0103	Zcchc2	Mus musculus zinc finger, CCHC domain containing 2 (Zcchc2), transcript variant B, mRNA [NM_001122675]
A_55_P2019457	0,66	4,76	0,0157	Eno2	Mus musculus enolase 2, gamma neuronal (Eno2), mRNA [NM_013509]
A_55_P1958597	0,66	7,01	0,0039	Slc27a3	Mus musculus solute carrier family 27 (fatty acid transporter), member 3 (Slc27a3), mRNA [NM_011988]
A_66_P126984	0,66	4,83	0,0149	Gm10523	Mus musculus in vitro fertilized eggs cDNA, RIKEN full-length enriched library, clone:7420441M16 product:hypothetical protein, full insert sequence. [AK135960]

A_55_P1971674	0,66	4,59	0,0178	Golga7b	Mus musculus golgi autoantigen, golgin subfamily a, 7B (Golga7b), transcript variant 1, mRNA [NM_001141983]
A_55_P2152566	0,66	5,74	0,0083	Sp110	Mus musculus Sp110 nuclear body protein (Sp110), transcript variant 1, mRNA [NM_175397]
A_55_P2059105	0,66	4,51	0,0191	Gm9920	Mus musculus predicted gene 9920 (Gm9920), long non-coding RNA [NR_045093]
A_55_P1983588	0,66	6,80	0,0045	Pmepa1	Mus musculus prostate transmembrane protein, androgen induced 1 (Pmepa1), mRNA [NM_022995]
A_51_P272147	0,66	4,54	0,0188	Emc9	Mus musculus ER membrane protein complex subunit 9 (Emc9), mRNA [NM_033146]
A_55_P2037918	0,66	4,66	0,0169	LOC102640717	PREDICTED: Mus musculus transcription elongation factor 1 homolog (LOC102640717), mRNA [XM_006526529]
A_55_P2028259	0,66	4,41	0,0207	Rhbdf2	Mus musculus rhomboid 5 homolog 2 (Drosophila) (Rhbdf2), transcript variant 1, mRNA [NM_172572]
A_55_P2000487	0,66	5,21	0,0113	Sreb2	Mus musculus sterol regulatory element binding factor 2 (Sreb2), mRNA [NM_033218]
A_55_P2085835	0,66	5,40	0,0101	5330417C22 Rik	Mus musculus RIKEN cDNA 5330417C22 gene (5330417C22Rik), mRNA [NM_001033304]
A_55_P2012037	0,66	4,14	0,0259	Lrrc8e	Mus musculus leucine rich repeat containing 8 family, member E (Lrrc8e), mRNA [NM_028175]
A_55_P2094706	0,66	3,46	0,0494	Sox17	Mus musculus SRY (sex determining region Y)-box 17 (Sox17), transcript variant 1, mRNA [NM_011441]
A_51_P423578	0,66	6,41	0,0056	Slfn2	Mus musculus schlafen 2 (Slfn2), mRNA [NM_011408]
A_55_P2095181	0,66	4,60	0,0178	Fdxac1	ferredoxin-fold anticodon binding domain containing 1 [Source:MGI Symbol;Acc:MGI:3584513] [ENSUST00000042391]
A_55_P2260052	0,65	5,03	0,0129	Gm17753	Mus musculus adult male stomach cDNA, RIKEN full-length enriched library, clone:2210413J24 product:unclassifiable, full insert sequence. [AK131895]
A_55_P2176385	0,65	5,49	0,0095	St6galnac4	Mus musculus ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1, 3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 4, mRNA (cDNA clone MGC:102103 IMAGE:6844232), complete cds. [BC086784]
A_51_P449048	0,65	4,54	0,0188	Cndp2	Mus musculus CNDP dipeptidase 2 (metallopeptidase M20 family) (Cndp2), transcript variant 2, mRNA [NM_023149]
A_55_P2177233	0,65	4,04	0,0284	Abhd5	Mus musculus abhydrolase domain containing 5 (Abhd5), mRNA [NM_026179]
A_55_P2083649	0,65	6,27	0,0061	Alas1	Mus musculus aminolevulinic acid synthase 1 (Alas1), transcript variant 1, mRNA [NM_001291835]
A_55_P2163493	0,65	4,24	0,0239	Tgm3	Mus musculus transglutaminase 3, E polypeptide (Tgm3), mRNA [NM_009374]
A_55_P2244677	0,65	3,85	0,0342	6720422M22 Rik	Mus musculus 12 days embryo male wolffian duct includes surrounding region cDNA, RIKEN full-length enriched library, clone:6720422M22 product:unclassifiable, full insert sequence. [AK032738]
A_55_P2097553	0,65	4,02	0,0290	C77080	Mus musculus expressed sequence C77080 (C77080), transcript variant 1, mRNA [NM_001033189]
A_51_P191463	0,65	6,84	0,0044	H2-M2	PREDICTED: Mus musculus histocompatibility 2, M region locus 2 (H2-M2), transcript variant X1, mRNA [XM_006525458]
A_55_P1963150	0,65	4,74	0,0159	Creg1	Mus musculus cellular repressor of E1A-stimulated genes 1 (Creg1), mRNA [NM_011804]
A_55_P2161675	0,65	4,18	0,0251	Zfp133-ps	Mus musculus zinc finger protein 133, pseudogene (Zfp133-ps), non-coding RNA [NR_033459]
A_55_P1978424	0,65	5,13	0,0120	Bcl2a1d	Mus musculus B cell leukemia/lymphoma 2 related protein A1d (Bcl2a1d), mRNA [NM_007536]
A_55_P2143282	0,65	3,54	0,0457	Nkd2	Mus musculus naked cuticle 2 homolog (Drosophila) (Nkd2), mRNA [NM_028186]
A_55_P2117649	0,65	3,50	0,0475	Slfn9	Mus musculus schlafen 9 (Slfn9), mRNA [NM_172796]
A_55_P2103115	0,65	7,26	0,0033	Tor1a1p2	Mus musculus torsin A interacting protein 2 (Tor1a1p2), transcript variant 5, mRNA [NM_172843]
A_55_P2279762	0,65	4,00	0,0296	6330415B21 Rik	Mus musculus RIKEN cDNA 6330415B21 gene (6330415B21Rik), long non-coding RNA [NR_045141]
A_55_P1975110	0,65	6,48	0,0054	Pnpt1	Mus musculus polyribonucleotide nucleotidyltransferase 1 (Pnpt1), mRNA [NM_027869]
A_51_P355360	0,65	5,60	0,0089	Jak3	Mus musculus Janus kinase 3 (Jak3), transcript variant 1, mRNA [NM_010589]
A_51_P394585	0,65	3,70	0,0394	Snx22	Mus musculus sorting nexin 22 (Snx22), mRNA [NM_001025612]
A_55_P2125588	0,64	3,64	0,0415	Pdgfa	Mus musculus platelet derived growth factor, alpha (Pdgfa), mRNA [NM_008808]
A_55_P2123673	0,64	4,22	0,0241	Trnp1	Mus musculus TMF1-regulated nuclear protein 1 (Trnp1), mRNA [NM_001081156]
A_55_P2169839	0,64	6,14	0,0065	Rufy3	Mus musculus RUN and FYVE domain containing 3 (Rufy3), transcript variant 1, mRNA [NM_001289774]
A_55_P2101666	0,64	4,56	0,0183	Vamp5	Mus musculus vesicle-associated membrane protein 5 (Vamp5), transcript variant 1, mRNA [NM_016872]
A_55_P2030568	0,64	4,15	0,0257	2010002M12 Rik	Mus musculus RIKEN cDNA 2010002M12 gene (2010002M12Rik), mRNA [NM_053217]
A_52_P195839	0,64	3,75	0,0376	Ctsc	Mus musculus cathepsin C (Ctsc), mRNA [NM_009982]
A_55_P2065829	0,64	5,11	0,0122	9230110C19 Rik	Mus musculus RIKEN cDNA 9230110C19 gene (9230110C19Rik), mRNA [NM_199017]
A_55_P2060445	0,64	5,97	0,0072	Apopt1	Mus musculus apoptogenic, mitochondrial 1 (Apopt1), transcript variant 2, mRNA [NM_026511]
A_51_P408363	0,64	4,08	0,0275	Cfp	Mus musculus complement factor properdin (Cfp), mRNA [NM_008823]
A_51_P331328	0,64	4,13	0,0263	Gpihbp1	Mus musculus GPI-anchored HDL-binding protein 1 (Gpihbp1), mRNA [NM_026730]
A_55_P1968178	0,64	4,94	0,0139	Smagp	Mus musculus small cell adhesion glycoprotein (Smagp), transcript variant 1, mRNA [NM_174992]
A_55_P2345631	0,64	4,20	0,0248	Tcrg-V1	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130095M15 product:unclassifiable, full insert sequence. [AK038325]
A_55_P2350553	0,64	4,46	0,0198	4933405D12	Mus musculus adult male testis cDNA, RIKEN full-length enriched

				Rik	library, clone:4933405D12 product:unclassifiable, full insert sequence. [AK016661]
A_55_P2097259	0,64	4,52	0,0190	Zufsp	PREDICTED: Mus musculus zinc finger with UFM1-specific peptidase domain (Zufsp), transcript variant X2, mRNA [XM_006512868]
A_55_P1974352	0,64	6,23	0,0062	Fam126b	Mus musculus family with sequence similarity 126, member B (Fam126b), mRNA [NM_172513]
A_55_P2146050	0,64	5,49	0,0095	Dennd5b	Mus musculus DENN/MADD domain containing 5B (Dennd5b), mRNA [NM_177192]
A_55_P2061386	0,64	7,20	0,0035	Chd3	Mus musculus chromodomain helicase DNA binding protein 3 (Chd3), mRNA [NM_146019]
A_55_P2106078	0,64	5,48	0,0095	Glxr2	Mus musculus glutaredoxin 2 (thioltransferase) (Glxr2), transcript variant 1, mRNA [NM_001038592]
A_51_P282508	0,64	6,36	0,0058	Rhoc	Mus musculus ras homolog gene family, member C (Rhoc), transcript variant 2, mRNA [NM_007484]
A_51_P134812	0,63	3,70	0,0394	Chac1	Mus musculus ChaC, cation transport regulator 1 (Chac1), mRNA [NM_026929]
A_65_P16208	0,63	4,75	0,0158	Baz1a	Mus musculus bromodomain adjacent to zinc finger domain 1A (Baz1a), mRNA [NM_013815]
A_51_P325552	0,63	3,76	0,0373	Spert	Mus musculus spermatid associated (Spert), transcript variant 2, mRNA [NM_026457]
A_52_P676798	0,63	4,99	0,0133	Gigyf1	Mus musculus GRB10 interacting GYF protein 1 (Gigyf1), mRNA [NM_031408]
A_55_P1999364	0,63	3,98	0,0302	Krt85	Mus musculus keratin 85 (Krt85), mRNA [NM_016879]
A_52_P577384	0,63	6,94	0,0042	Il18bp	Mus musculus interleukin 18 binding protein (Il18bp), mRNA [NM_010531]
A_55_P2168426	0,63	6,21	0,0063	Pced1b	Mus musculus PC-esterase domain containing 1B (Pced1b), mRNA [NM_172293]
A_55_P2100550	0,63	5,17	0,0116	Mtif2	Mus musculus mitochondrial translational initiation factor 2 (Mtif2), transcript variant 4, mRNA [NM_001282120]
A_52_P297642	0,63	5,14	0,0119	Pdia5	Mus musculus protein disulfide isomerase associated 5 (Pdia5), mRNA [NM_028295]
A_55_P1956403	0,63	4,14	0,0259	Smco1	Mus musculus single-pass membrane protein with coiled-coil domains 1 (Smco1), mRNA [NM_183283]
A_55_P1973779	0,63	6,02	0,0070	Pde4c	Mus musculus phosphodiesterase 4C, cAMP specific (Pde4c), mRNA [NM_201607]
A_51_P216593	0,63	4,60	0,0177	Wfs1	Mus musculus Wolfram syndrome 1 homolog (human) (Wfs1), mRNA [NM_011716]
A_55_P2326091	0,63	5,49	0,0094	9330175M20 Rik	Mus musculus RIKEN cDNA 9330175M20 gene (9330175M20Rik), long non-coding RNA [NR_045151]
A_55_P1959530	0,63	4,03	0,0287	LOC102632152	PREDICTED: Mus musculus spermatogenesis-associated protein 31A6-like (LOC102632152), mRNA [XM_006516996]
A_55_P2020572	0,63	3,94	0,0313	Psme3	Mus musculus proteasome (prosome, macropain) activator subunit 3 (PA28 gamma, Ki) (Psme3), mRNA [NM_011192]
A_55_P2167025	0,63	3,59	0,0435	Pvrl2	Mus musculus poliovirus receptor-related 2 (Pvrl2), transcript variant 1, mRNA [NM_008990]
A_52_P1020860	0,63	4,46	0,0199	AW112010	Mus musculus expressed sequence AW112010 (AW112010), long non-coding RNA [NR_102366]
A_51_P470715	0,63	3,80	0,0359	Cish	Mus musculus cytokine inducible SH2-containing protein (Cish), mRNA [NM_009895]
A_55_P2176492	0,63	3,75	0,0374	Tollip	Mus musculus toll interacting protein (Tollip), mRNA [NM_023764]
A_55_P2063490	0,63	5,02	0,0130	Csprs	Mus musculus component of Sp100-rs (Csprs), mRNA [NM_033616]
A_55_P2014706	0,63	5,18	0,0115	Naip5	Mus musculus NLR family, apoptosis inhibitory protein 5 (Naip5), mRNA [NM_010870]
A_55_P1956482	0,63	3,51	0,0473	Dmtn	Mus musculus 6 days neonate spleen cDNA, RIKEN full-length enriched library, clone:F420001j19 product:erythrocyte protein band 4.9, full insert sequence. [AK165204]
A_55_P2114680	0,63	4,67	0,0168	Car4	Mus musculus carbonic anhydrase 4 (Car4), mRNA [NM_007607]
A_51_P346938	0,62	3,51	0,0473	Lrg1	Mus musculus leucine-rich alpha-2-glycoprotein 1 (Lrg1), mRNA [NM_029796]
A_55_P2007470	0,62	3,51	0,0473	Pdgfa	Mus musculus platelet derived growth factor, alpha (Pdgfa), mRNA [NM_008808]
A_52_P263518	0,62	5,41	0,0100	Gng2	Mus musculus guanine nucleotide binding protein (G protein), gamma 2 (Gng2), transcript variant 1, mRNA [NM_010315]
A_55_P2021490	0,62	5,06	0,0125	Gm16386	Mus musculus cDNA, RIKEN full-length enriched library, clone:G630018L09 product:hypothetical protein, full insert sequence. [AK144317]
A_55_P2109486	0,62	6,38	0,0057	Milr1	Mus musculus mast cell immunoglobulin like receptor 1 (Milr1), transcript variant 1, mRNA [NM_001033435]
A_55_P2044364	0,62	3,99	0,0298	Mms22l	Mus musculus MMS22-like, DNA repair protein (Mms22l), mRNA [NM_199467]
A_66_P115539	0,62	4,82	0,0150	Gm11240	Mus musculus predicted gene 11240 (Gm11240), transcript variant 2, long non-coding RNA [NR_046042]
A_55_P2061492	0,62	4,93	0,0139	Pnlcd1	Mus musculus 2 cells egg cDNA, RIKEN full-length enriched library, clone:B020003A13 product:weakly similar to Hypothetical protein FLJ35820 (deadenylation nuclease) [Homo sapiens], full insert sequence. [AK139523]
A_55_P2040583	0,62	3,71	0,0389	Map6d1	Mus musculus MAP6 domain containing 1 (Map6d1), mRNA [NM_198599]
A_51_P506417	0,62	3,70	0,0393	Krt14	Mus musculus keratin 14 (Krt14), mRNA [NM_016958]
A_51_P282667	0,62	4,63	0,0173	Hexa	Mus musculus hexosaminidase A (Hexa), mRNA [NM_010421]
A_55_P2126557	0,62	5,57	0,0090	Gm5858	PREDICTED: Mus musculus predicted gene 5858 (Gm5858), mRNA [XM_006502567]
A_51_P443514	0,62	6,46	0,0055	1700001K19 Rik	Mus musculus RIKEN cDNA 1700001K19 gene (1700001K19Rik), mRNA [NM_025488]
A_55_P2051254	0,62	5,40	0,0101	Pvt1	Mus musculus plasmacytoma variant translocation 1 (Pvt1), long non-coding RNA [NR_003368]
A_51_P355753	0,62	3,77	0,0370	Hic1	Mus musculus hypermethylated in cancer 1 (Hic1), transcript variant 1, mRNA [NM_010430]



A_55_P2161958	0,62	4,46	0,0198	2410141K09 Rik	Mus musculus RIKEN cDNA 2410141K09 gene (2410141K09Rik), transcript variant 1, mRNA [NM_001290196]
A_55_P2159710	0,62	3,70	0,0393	Acvr1	Mus musculus activin A receptor, type 1 (Acvr1), transcript variant 1, mRNA [NM_001110204]
A_51_P419286	0,62	4,90	0,0142	Batf3	Mus musculus basic leucine zipper transcription factor, ATF-like 3 (Batf3), mRNA [NM_030060]
A_66_P119155	0,62	3,90	0,0324	Dusp3	Mus musculus dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related) (Dusp3), mRNA [NM_028207]
A_55_P2183602	0,62	4,52	0,0190	Tbc1d2	TBC1 domain family, member 2 [Source:MGI Symbol;Acc:MGI:2652885] [ENSMUST00000107750]
A_51_P416137	0,62	4,09	0,0271	Slc31a2	Mus musculus solute carrier family 31, member 2 (Slc31a2), transcript variant 1, mRNA [NM_025286]
A_55_P2235059	0,61	6,00	0,0070	6230415J03Rik	Mus musculus 11 days embryo head cDNA, RIKEN full-length enriched library, clone:6230415J03 product:unclassifiable, full insert sequence. [AK078026]
A_55_P2101441	0,61	4,29	0,0230	Gpbar1	Mus musculus G protein-coupled bile acid receptor 1 (Gpbar1), mRNA [NM_174985]
A_55_P1959379	0,61	3,66	0,0406	BC080695	Mus musculus cDNA sequence BC080695 (BC080695), mRNA [NM_001007579]
A_55_P2010957	0,61	5,34	0,0105	Gm4971	Mus musculus 2 cells egg cDNA, RIKEN full-length enriched library, clone:B020007018 product:hypothetical Forkhead-associated (FHA)/Forkhead-associated (FHA) domain profile/SMAD/FHA containing protein, full insert sequence. [AK139645]
A_55_P2035662	0,61	4,71	0,0162	Aebp1	Mus musculus AE binding protein 1 (Aebp1), transcript variant 1, mRNA [NM_001291857]
A_55_P2127303	0,61	6,08	0,0067	Spsb2	Mus musculus splA/ryanodine receptor domain and SOCS box containing 2 (Spsb2), mRNA [NM_013539]
A_55_P2038767	0,61	3,99	0,0299	Fam49a	Mus musculus family with sequence similarity 49, member A (Fam49a), transcript variant 1, mRNA [NM_029758]
A_55_P1952738	0,61	7,29	0,0033	Ppp3ca	Mus musculus protein phosphatase 3, catalytic subunit, alpha isoform (Ppp3ca), mRNA [NM_008913]
A_51_P101196	0,61	7,82	0,0024	Psme1	Mus musculus proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) (Psme1), mRNA [NM_011189]
A_55_P2079967	0,61	3,87	0,0335	Map3k5	Mus musculus mitogen-activated protein kinase kinase 5 (Map3k5), mRNA [NM_008580]
A_66_P114102	0,61	4,91	0,0141	Zfp36l2	Mus musculus zinc finger protein 36, C3H type-like 2 (Zfp36l2), mRNA [NM_001001806]
A_55_P2083889	0,61	5,04	0,0128	Pea15a	Mus musculus phosphoprotein enriched in astrocytes 15A (Pea15a), transcript variant 2, mRNA [NM_011063]
A_55_P1956064	0,61	5,49	0,0095	Atp5g1	ATP synthase, H+ transporting, mitochondrial F0 complex, subunit c1 (subunit 9) [Source:MGI Symbol;Acc:MGI:107653] [ENSMUST00000090541]
A_55_P1984314	0,61	4,61	0,0176	Trim43c	Mus musculus tripartite motif-containing 43C (Trim43c), mRNA [NM_001177858]
A_55_P2159740	0,61	4,94	0,0139	Mfsd2b	Mus musculus major facilitator superfamily domain containing 2B (Mfsd2b), mRNA [NM_001033488]
A_55_P2283551	0,61	3,84	0,0345	2810455B08 Rik	Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2810455B08 product:unclassifiable, full insert sequence. [AK013351]
A_55_P2178201	0,61	4,24	0,0238	Wdr45b	Mus musculus WD repeat domain 45B (Wdr45b), mRNA [NM_025793]
A_55_P2086811	0,61	4,84	0,0149	Sp140	Mus musculus Sp140 nuclear body protein (Sp140), mRNA [NM_001013817]
A_55_P2017709	0,61	4,29	0,0229	Igsf9	Mus musculus immunoglobulin superfamily, member 9 (Igsf9), transcript variant 1, mRNA [NM_033608]
A_55_P1964628	0,61	5,32	0,0106	LOC102633627	PREDICTED: Mus musculus tropomyosin alpha-4 chain-like (LOC102633627), misc_RNA [XR_385459]
A_51_P364485	0,61	4,78	0,0155	Tnfaip2	Mus musculus tumor necrosis factor, alpha-induced protein 2 (Tnfaip2), mRNA [NM_009396]
A_51_P469008	0,60	7,35	0,0032	Ehd1	Mus musculus EH-domain containing 1 (Ehd1), mRNA [NM_010119]
A_55_P2074636	0,60	5,39	0,0101	Adap1	Mus musculus ArfGAP with dual PH domains 1 (Adap1), mRNA [NM_172723]
A_55_P1966659	0,60	4,76	0,0156	LOC547349	Mus musculus MHC class I family member (LOC547349), mRNA [NM_001025208]
A_51_P327796	0,60	4,14	0,0260	Itgb5	Mus musculus integrin beta 5 (Itgb5), transcript variant 2, mRNA [NM_010580]
A_66_P111660	0,60	4,87	0,0146	Mt1	Mus musculus metallothionein 1 (Mt1), mRNA [NM_013602]
A_55_P2034740	0,60	5,84	0,0077	Exosc2	Mus musculus exosome component 2 (Exosc2), mRNA [NM_144886]
A_55_P2130399	0,60	4,70	0,0164	Rilp	Mus musculus Rab interacting lysosomal protein (Rilp), mRNA [NM_001029938]
A_55_P1961690	0,60	4,23	0,0240	Tctex1d2	Mus musculus Tctex1 domain containing 2 (Tctex1d2), mRNA [NM_025329]
A_52_P532227	0,60	5,52	0,0092	S1pr1	Mus musculus sphingosine-1-phosphate receptor 1 (S1pr1), mRNA [NM_007901]
A_55_P1978465	0,60	3,64	0,0415	H2-Q5	Mus musculus histocompatibility 2, Q region locus 5 (H2-Q5), non-coding RNA [NR_051981]
A_55_P1986567	0,60	3,77	0,0370	Gm19668	Mus musculus predicted gene, 19668 (Gm19668), mRNA [NM_001205034]
A_55_P2220092	0,60	5,02	0,0130	D230035N22 Rik	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230021N22 product:unclassifiable, full insert sequence. [AK079528]
A_66_P110607	0,60	5,33	0,0105	Sart1	Mus musculus squamous cell carcinoma antigen recognized by T cells 1 (Sart1), mRNA [NM_016882]
A_55_P2085979	0,60	6,48	0,0054	Igf1	Mus musculus insulin-like growth factor 1 (Igf1), transcript variant 2, mRNA [NM_184052]
A_55_P2070661	0,60	4,53	0,0189	Taf7l	Mus musculus TAF7-like RNA polymerase II, TATA box binding protein (TBP)-associated factor (Taf7l), mRNA [NM_028958]
A_55_P2045158	0,60	4,47	0,0197	Mlxip1	Mus musculus MLX interacting protein-like (Mlxip1), mRNA [NM_021455]
A_55_P2076846	0,60	3,50	0,0475	Tead2	Mus musculus TEA domain family member 2 (Tead2), transcript variant 1, mRNA [NM_001285498]

A_51_P315890	0,60	3,77	0,0368	Kcnk6	Mus musculus potassium inwardly-rectifying channel, subfamily K, member 6 (Kcnk6), mRNA [NM_001033525]
A_52_P476754	0,60	5,11	0,0122	Ubash3b	Mus musculus ubiquitin associated and SH3 domain containing, B (Ubash3b), mRNA [NM_176860]
A_55_P2039190	0,60	3,51	0,0471	Gfra4	Mus musculus glial cell line derived neurotrophic factor family receptor alpha 4 (Gfra4), transcript variant 2, mRNA [NM_020014]
A_55_P2090364	0,60	4,95	0,0138	Plcd4	phospholipase C, delta 4 [Source:MGI Symbol;Acc:MGI:107469] [ENSMUST00000113749]
A_52_P632742	0,60	7,24	0,0034	Shisa5	Mus musculus shisa homolog 5 (Xenopus laevis) (Shisa5), transcript variant 1, mRNA [NM_025858]
A_55_P2069721	0,60	4,03	0,0287	Hspa8	Mus musculus heat shock protein 8 (Hspa8), mRNA [NM_031165]
A_55_P2080603	0,60	3,51	0,0473	Hspa8	Mus musculus heat shock protein 8 (Hspa8), mRNA [NM_031165]
A_55_P2154797	0,60	4,14	0,0259	2810006K23 Rik	Mus musculus RIKEN cDNA 2810006K23 gene (2810006K23Rik), transcript variant 1, mRNA [NM_001134717]
A_55_P2123220	0,60	3,63	0,0419	Slc35e1	Mus musculus solute carrier family 35, member E1 (Slc35e1), mRNA [NM_177766]
A_55_P2039694	0,60	4,61	0,0176	Clca1	chloride channel calcium activated 1 [Source:MGI Symbol;Acc:MGI:1316732] [ENSMUST0000029932]
A_55_P2055763	0,60	5,06	0,0126	Gm5878	Mus musculus predicted gene 5878 (Gm5878), mRNA [NM_001034902]
A_51_P118132	0,60	6,80	0,0045	Skil	Mus musculus SKI-like (Skil), transcript variant 1, mRNA [NM_011386]
A_55_P2008755	0,60	5,79	0,0080	Mrpl30	Mus musculus mitochondrial ribosomal protein L30, mRNA (cDNA clone MGC:7981 IMAGE:3585410), complete cds. [BC004614]
A_55_P2019203	0,60	3,58	0,0438	Spire1	Mus musculus spire homolog 1 (Drosophila) (Spire1), transcript variant 1, mRNA [NM_194355]
A_55_P2035504	0,60	4,77	0,0156	Nt5c3	Mus musculus 5'-nucleotidase, cytosolic III (Nt5c3), transcript variant 1, mRNA [NM_026004]
A_55_P2175692	0,60	5,93	0,0073	Reep3	Mus musculus receptor accessory protein 3 (Reep3), transcript variant 1, mRNA [NM_001204915]
A_51_P507023	0,60	6,52	0,0053	Nt5dc3	Mus musculus 5'-nucleotidase domain containing 3 (Nt5dc3), mRNA [NM_175331]
A_55_P1958255	0,60	4,63	0,0172	Rnf114	Mus musculus ring finger protein 114 (Rnf114), mRNA [NM_030743]
A_55_P2103837	0,59	6,07	0,0068	Gbp4	Mus musculus guanylate binding protein 4 (Gbp4), transcript variant 1, mRNA [NM_001256005]
A_55_P2012096	0,59	5,60	0,0089	Bmp8a	Mus musculus bone morphogenetic protein 8a (Bmp8a), transcript variant 1, mRNA [NM_001256019]
A_51_P240614	0,59	3,45	0,0500	Tm4sf1	Mus musculus transmembrane 4 superfamily member 1 (Tm4sf1), mRNA [NM_008536]
A_55_P2157676	0,59	5,57	0,0090	Wdr34	Mus musculus WD repeat domain 34 (Wdr34), mRNA [NM_001008498]
A_55_P2103626	0,59	5,73	0,0083	Slc27a4	Mus musculus solute carrier family 27 (fatty acid transporter), member 4 (Slc27a4), mRNA [NM_011989]
A_66_P105244	0,59	5,32	0,0106	Tor1aip1	Mus musculus torsin A interacting protein 1 (Tor1aip1), transcript variant 2, mRNA [NM_144791]
A_51_P177491	0,59	4,16	0,0254	Ctrl	Mus musculus chymotrypsin-like (Ctrl), mRNA [NM_023182]
A_55_P2146136	0,59	5,01	0,0130	Gla	Mus musculus galactosidase, alpha (Gla), mRNA [NM_013463]
A_55_P2232988	0,59	3,76	0,0373	Scube2	Mus musculus signal peptide, CUB domain, EGF-like 2 (Scube2), mRNA [NM_020052]
A_51_P519364	0,59	4,03	0,0287	Fam83f	Mus musculus family with sequence similarity 83, member F (Fam83f), mRNA [NM_145986]
A_55_P2246900	0,59	5,06	0,0126	A430017K17	Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430017K17 product:unclassifiable, full insert sequence. [AK079696]
A_51_P176377	0,59	5,50	0,0094	Usp25	Mus musculus ubiquitin specific peptidase 25 (Usp25), mRNA [NM_013918]
A_55_P2011678	0,59	4,28	0,0231	Pdzk1ip1	Mus musculus PDZK1 interacting protein 1 (Pdzk1ip1), transcript variant 1, mRNA [NM_001164557]
A_55_P1995045	0,59	7,04	0,0038	Zc3hav1	Mus musculus zinc finger CCCH type, antiviral 1 (Zc3hav1), transcript variant 2, mRNA [NM_028864]
A_66_P101703	0,59	4,49	0,0194	Krtap5-5	Mus musculus keratin associated protein 5-5 (Krtap5-5), mRNA [NM_001037822]
A_55_P2093749	0,59	5,14	0,0120	LOC102633216	PREDICTED: Mus musculus uncharacterized LOC102633216 (LOC102633216), ncRNA [XR_376723]
A_55_P2092526	0,59	7,81	0,0024	Tgif1	Mus musculus TGFB-induced factor homeobox 1 (Tgif1), transcript variant 1, mRNA [NM_001164075]
A_55_P2092750	0,59	3,72	0,0388	Car9	Mus musculus carbonic anhydrase 9 (Car9), mRNA [NM_139305]
A_52_P420504	0,59	4,84	0,0148	Acta2	Mus musculus actin, alpha 2, smooth muscle, aorta (Acta2), mRNA [NM_007392]
A_51_P235687	0,59	3,67	0,0405	Alox5ap	Mus musculus arachidonate 5-lipoxygenase activating protein (Alox5ap), mRNA [NM_009663]
A_52_P441974	0,59	3,55	0,0451	Evc2	Mus musculus Ellis van Creveld syndrome 2 (Evc2), mRNA [NM_145920]
A_55_P2072940	0,59	4,19	0,0249	Vsig10	V-set and immunoglobulin domain containing 10 [Source:MGI Symbol;Acc:MGI:2448533] [ENSMUST00000145052]
A_55_P2074811	0,59	6,43	0,0056	Zfp609	Mus musculus zinc finger protein 609 (Zfp609), mRNA [NM_172536]
A_55_P2240301	0,59	4,51	0,0191	Gm20555	Mus musculus 13 days embryo lung cDNA, RIKEN full-length enriched library, clone:D430034N21 product:hypothetical Cysteine-rich region profile/Zn-finger, C2H2 type/Glycoside hydrolase, family 22 containing protein, full insert sequence. [AK085085]
A_55_P1975370	0,58	3,58	0,0440	Apoc1	Mus musculus apolipoprotein C-I (Apoc1), transcript variant 1, mRNA [NM_007469]
A_55_P2159094	0,58	3,83	0,0348	Lepre1	Mus musculus leprecan 1 (Lepre1), transcript variant 1, mRNA [NM_019782]
A_51_P219483	0,58	3,58	0,0439	Tsku	Mus musculus tsukushi (Tsku), transcript variant 3, mRNA [NM_001024619]



A_55_P2027436	0,58	6,11	0,0066	Bri3	Mus musculus brain protein I3 (Bri3), transcript variant 1, mRNA [NM_018772]
A_55_P2043367	0,58	6,11	0,0066	Apol9a	Mus musculus apolipoprotein L 9a (Apol9a), transcript variant 1, mRNA [NM_173786]
A_52_P650855	0,58	5,58	0,0090	Myo1d	Mus musculus myosin ID (Myo1d), mRNA [NM_177390]
A_55_P2034853	0,58	6,12	0,0065	2610028H24 Rik	Mus musculus RIKEN cDNA 2610028H24 gene (2610028H24Rik), mRNA [NM_029816]
A_55_P1957213	0,58	5,51	0,0093	3930401B19 Rik	Mus musculus 13 days embryo whole body cDNA, RIKEN full-length enriched library, clone:3930401B19 product:Y box protein 3, full insert sequence. [AK019465]
A_52_P215106	0,58	3,98	0,0301	Pik3r6	Mus musculus phosphoinositide-3-kinase, regulatory subunit 6 (Pik3r6), transcript variant 2, mRNA [NM_001004435]
A_55_P2053398	0,58	5,15	0,0119	Pirb	paired Ig-like receptor B [Source:MGI Symbol;Acc:MGI:894311] [ENSMUST00000078451]
A_55_P2135331	0,58	5,53	0,0092	Evl	Mus musculus Ena-vasodilator stimulated phosphoprotein (Evl), transcript variant 1, mRNA [NM_001163394]
A_55_P1955717	0,58	4,75	0,0158	Hccs	Mus musculus holocytochrome c synthetase (Hccs), mRNA [NM_008222]
A_51_P252677	0,58	6,16	0,0064	1110007C09 Rik	Mus musculus RIKEN cDNA 1110007C09 gene (1110007C09Rik), mRNA [NM_026738]
A_55_P1964313	0,58	4,46	0,0198	Pla2g4b	Mus musculus phospholipase A2, group IVB (cytosolic) (Pla2g4b), mRNA [NM_145378]
A_55_P2090060	0,58	3,53	0,0461	Mab21l3	Mus musculus mab-21-like 3 (C. elegans) (Mab21l3), mRNA [NM_172295]
A_55_P2177026	0,58	5,99	0,0071	Mafg	Mus musculus v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian) (Mafg), mRNA [NM_010756]
A_51_P305437	0,58	5,11	0,0121	Rcn1	Mus musculus reticulocalbin 1 (Rcn1), mRNA [NM_009037]
A_55_P2108868	0,58	5,75	0,0083	Nufip1	Mus musculus nuclear fragile X mental retardation protein interacting protein 1 (Nufip1), mRNA [NM_013745]
A_55_P2006311	0,58	3,66	0,0407	Krtap9-1	Mus musculus keratin associated protein 9-1 (Krtap9-1), mRNA [NM_015741]
A_55_P1956827	0,58	6,44	0,0055	Ogfr	Mus musculus opioid growth factor receptor (Ogfr), mRNA [NM_031373]
A_55_P2065732	0,58	4,64	0,0172	Medag	Mus musculus mesenteric estrogen dependent adipogenesis (Medag), mRNA [NM_027519]
A_55_P2121142	0,57	3,63	0,0421	Tbc1d22b	Mus musculus TBC1 domain family, member 22B (Tbc1d22b), mRNA [NM_198647]
A_55_P2066304	0,57	4,62	0,0175	Limk2	Mus musculus LIM motif-containing protein kinase 2 (Limk2), transcript variant 2, mRNA [NM_173053]
A_55_P2150299	0,57	5,09	0,0123	E030030106 Rik	Mus musculus RIKEN cDNA E030030106 gene (E030030106Rik), transcript variant 2, mRNA [NM_001254745]
A_51_P519251	0,57	4,30	0,0228	Nupr1	Mus musculus nuclear protein transcription regulator 1 (Nupr1), mRNA [NM_019738]
A_52_P635338	0,57	3,91	0,0322	Fes	Mus musculus feline sarcoma oncogene (Fes), mRNA [NM_010194]
A_55_P1984730	0,57	4,89	0,0144	Sgpl1	Mus musculus sphingosine phosphate lyase 1 (Sgpl1), mRNA [NM_009163]
A_55_P2186634	0,57	5,03	0,0129	Pdik1l	PDLIM1 interacting kinase 1 like [Source:MGI Symbol;Acc:MGI:2385213] [ENSMUST00000127857]
A_55_P2048607	0,57	3,69	0,0396	Hp	Mus musculus haptoglobin (Hp), mRNA [NM_017370]
A_55_P2071952	0,57	5,53	0,0092	Wdr92	Mus musculus WD repeat domain 92 (Wdr92), mRNA [NM_178909]
A_55_P1998578	0,57	4,87	0,0145	Ifitm2	Mus musculus interferon induced transmembrane protein 2 (Ifitm2), mRNA [NM_030694]
A_55_P1975210	0,57	4,01	0,0292	Fubp3	Mus musculus far upstream element (FUSE) binding protein 3 (Fubp3), transcript variant 1, mRNA [NM_001033389]
A_55_P2047768	0,57	4,00	0,0297	Serpnb6c	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 6c (Serpnb6c), mRNA [NM_148942]
A_55_P1964183	0,57	5,23	0,0111	Dysf	Mus musculus dysferlin (Dysf), transcript variant 2, mRNA [NM_001077694]
A_55_P1997931	0,57	4,74	0,0159	Map9	Mus musculus microtubule-associated protein 9 (Map9), mRNA [NM_001081230]
A_55_P1963767	0,57	4,93	0,0140	Npr2	Mus musculus natriuretic peptide receptor 2 (Npr2), mRNA [NM_173788]
A_51_P421094	0,57	7,50	0,0029	Ascc3	Mus musculus activating signal cointegrator 1 complex subunit 3 (Ascc3), mRNA [NM_198007]
A_52_P232438	0,57	3,49	0,0480	Olfir1419	Mus musculus olfactory receptor 1419 (Olfir1419), mRNA [NM_001011775]
A_55_P2039071	0,57	3,71	0,0389	Dhdh	Mus musculus dihydrodiol dehydrogenase (dimeric) (Dhdh), mRNA [NM_027903]
A_51_P474459	0,57	3,87	0,0335	Socs3	Mus musculus suppressor of cytokine signaling 3 (Socs3), mRNA [NM_007707]
A_51_P151126	0,57	5,27	0,0108	Cd52	Mus musculus CD52 antigen (Cd52), mRNA [NM_013706]
A_55_P2066548	0,57	3,98	0,0301	Baiap2l2	Mus musculus BAI1-associated protein 2-like 2 (Baiap2l2), mRNA [NM_177580]
A_55_P1970710	0,56	5,30	0,0106	Mllt6	Mus musculus myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6 (Mllt6), mRNA [NM_139311]
A_52_P574668	0,56	3,77	0,0369	Nt5e	Mus musculus 5' nucleotidase, ecto (Nt5e), mRNA [NM_011851]
A_51_P171999	0,56	4,68	0,0166	Apoe	Mus musculus apolipoprotein E (Apoe), mRNA [NM_009696]
A_55_P2335903	0,56	4,19	0,0249	Nlgn3	neuroligin 3 [Source:MGI Symbol;Acc:MGI:2444609] [ENSMUST00000065858]
A_55_P1968789	0,56	5,07	0,0125	Rasa3	Mus musculus RAS p21 protein activator 3 (Rasa3), mRNA [NM_009025]
A_55_P2259500	0,56	4,63	0,0173	D130012P04 Rik	Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130012P04 product:hypothetical protein, full insert sequence. [AK083809]
A_51_P142153	0,56	3,60	0,0433	Filip1l	Mus musculus filamin A interacting protein 1-like (Filip1l), transcript variant 1, mRNA [NM_001040397]

A_55_P2098226	0,56	3,58	0,0439	C1rl	Mus musculus complement component 1, r subcomponent-like (C1rl), mRNA [NM_181344]
A_55_P2090914	0,56	6,66	0,0049	Tpst2	Mus musculus protein-tyrosine sulfotransferase 2 (Tpst2), mRNA [NM_009419]
A_51_P273609	0,56	3,81	0,0357	Itpka	Mus musculus inositol 1,4,5-trisphosphate 3-kinase A (Itpka), mRNA [NM_146125]
A_55_P2041265	0,56	4,98	0,0134	Utp6	Mus musculus UTP6, small subunit (SSU) processome component, homolog (yeast) (Utp6), mRNA [NM_144826]
A_51_P150710	0,56	3,77	0,0368	Igj	Mus musculus immunoglobulin joining chain (Igj), mRNA [NM_152839]
A_55_P2006277	0,56	5,41	0,0100	Ogdh	Mus musculus oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide) (Ogdh), transcript variant 3, mRNA [NM_001252287]
A_55_P2051322	0,56	4,40	0,0207	Efh2	Mus musculus EF hand domain containing 2 (Efh2), mRNA [NM_025994]
A_55_P2162269	0,56	4,88	0,0144	Bri3	Mus musculus brain protein I3 (Bri3), transcript variant 1, mRNA [NM_018772]
A_55_P1958007	0,56	7,14	0,0036	Ddx24	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 24 (Ddx24), transcript variant 1, mRNA [NM_001159502]
A_51_P375201	0,56	5,17	0,0116	Plk3	Mus musculus polo-like kinase 3 (Plk3), mRNA [NM_013807]
A_55_P2041060	0,56	3,62	0,0423	Rbp3	Mus musculus retinol binding protein 3, interstitial (Rbp3), mRNA [NM_015745]
A_55_P2136902	0,56	5,28	0,0107	Cisd3	Mus musculus CDGSH iron sulfur domain 3 (Cisd3), mRNA [NM_001085500]
A_55_P2008042	0,56	4,29	0,0229	Gm15348	Mus musculus predicted gene 15348 (Gm15348), long non-coding RNA [NR_033546]
A_52_P240542	0,56	4,67	0,0168	Id2	Mus musculus inhibitor of DNA binding 2 (Id2), mRNA [NM_010496]
A_55_P2066299	0,56	4,68	0,0166	Gpr137b	Mus musculus G protein-coupled receptor 137B (Gpr137b), mRNA [NM_031999]
A_55_P2066727	0,56	4,93	0,0139	Serpnb6a	Mus musculus serine (or cysteine) peptidase inhibitor, clade B, member 6a (Serpnb6a), transcript variant 3, mRNA [NM_001164118]
A_55_P2144364	0,55	3,80	0,0359	Gm4354	Mus musculus adult male adrenal gland cDNA, RIKEN full-length enriched library, clone:7330409G21 product:unclassifiable, full insert sequence. [AK135613]
A_51_P332201	0,55	4,48	0,0195	Cst3	Mus musculus cystatin C (Cst3), mRNA [NM_009976]
A_55_P2182690	0,55	5,70	0,0085	Orai3	Mus musculus ORAI calcium release-activated calcium modulator 3 (Orai3), mRNA [NM_198424]
A_55_P2088490	0,55	5,08	0,0124	Acad10	Mus musculus acyl-Coenzyme A dehydrogenase family, member 10 (Acad10), mRNA [NM_028037]
A_55_P2109377	0,55	3,73	0,0384	Camk2b	Mus musculus calcium/calmodulin-dependent protein kinase II, beta (Camk2b), transcript variant 1, mRNA [NM_001174053]
A_55_P2059432	0,55	3,83	0,0349	Crabp2	Mus musculus cellular retinoic acid binding protein II (Crabp2), mRNA [NM_007759]
A_52_P529360	0,55	3,71	0,0389	Rab11fip5	Mus musculus RAB11 family interacting protein 5 (class I) (Rab11fip5), transcript variant 1, mRNA [NM_001003955]
A_66_P116804	0,55	4,07	0,0277	Smchd1	Mus musculus SMC hinge domain containing 1 (Smchd1), mRNA [NM_028887]
A_55_P2023542	0,55	3,86	0,0337	Ccr7	Mus musculus chemokine (C-C motif) receptor 7 (Ccr7), mRNA [NM_007719]
A_51_P124345	0,55	4,83	0,0150	Cpne5	Mus musculus copine V (Cpne5), mRNA [NM_153166]
A_55_P2035320	0,55	4,58	0,0181	Nfil3	Mus musculus nuclear factor, interleukin 3, regulated (Nfil3), mRNA [NM_017373]
A_55_P2017870	0,55	5,30	0,0106	2810417H13 Rik	Mus musculus RIKEN cDNA 2810417H13 gene (2810417H13Rik), mRNA [NM_026515]
A_55_P2154387	0,55	5,67	0,0086	Bmp4	Mus musculus bone morphogenetic protein 4 (Bmp4), mRNA [NM_007554]
A_55_P2289800	0,55	4,16	0,0254	Fryl	Mus musculus furry homolog-like (Drosophila) (Fryl), mRNA [NM_028194]
A_55_P2113210	0,55	4,35	0,0217	Cyth4	Mus musculus cytohesin 4 (Cyth4), mRNA [NM_028195]
A_55_P2077664	0,55	4,49	0,0195	Gm5458	Mus musculus predicted gene 5458 (Gm5458), mRNA [NM_001024706]
A_55_P2083184	0,55	4,45	0,0199	Gm10142	Mus musculus predicted gene 10142 (Gm10142), mRNA [NM_001205035]
A_55_P1961302	0,55	4,45	0,0200	Gm11974	Mus musculus predicted gene 11974 (Gm11974), long non-coding RNA [NR_045893]
A_55_P1985693	0,55	4,18	0,0251	Fhdc1	Mus musculus FH2 domain containing 1 (Fhdc1), transcript variant 1, mRNA [NM_001205355]
A_55_P1965338	0,55	4,03	0,0289	Anxa8	Mus musculus annexin A8 (Anxa8), transcript variant 1, mRNA [NM_013473]
A_55_P2091305	0,55	4,92	0,0140	2610318M16 Rik	Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2610318M16 product:hypothetical protein, full insert sequence. [AK019187]
A_66_P116373	0,55	4,36	0,0216	Pwpp2b	Mus musculus PWPP domain containing 2B (Pwpp2b), transcript variant 1, mRNA [NM_001098636]
A_55_P2016708	0,55	6,20	0,0063	Msl1	Mus musculus male-specific lethal 1 homolog (Drosophila) (Msl1), mRNA [NM_028722]
A_55_P2247608	0,55	3,69	0,0398	4931428A05 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4931428A05 product:unclassifiable, full insert sequence. [AK016478]
A_55_P2170210	0,54	4,39	0,0209	Ap1s3	Mus musculus adaptor-related protein complex AP-1, sigma 3 (Ap1s3), mRNA [NM_183027]
A_55_P2161773	0,54	4,76	0,0157	Mpp3	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730092N13 product:membrane protein, palmitoylated 3 (MAGUK p55 subfamily member 3), full insert sequence. [AK163205]
A_52_P187940	0,54	3,67	0,0402	Lfng	Mus musculus LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase (Lfng), mRNA [NM_008494]
A_55_P2039416	0,54	5,97	0,0072	Sgk1	Mus musculus serum/glucocorticoid regulated kinase 1 (Sgk1), transcript variant 1, mRNA [NM_001161845]
A_51_P100327	0,54	5,05	0,0127	Tap1	Mus musculus transporter 1, ATP-binding cassette, sub-family B

					(MDR/TAP) (Tap1), transcript variant 1, mRNA [NM_013683]
A_55_P1955715	0,54	4,81	0,0151	Gm6710	Mus musculus predicted gene 6710 (Gm6710), mRNA [NM_001164689]
A_52_P601688	0,54	4,23	0,0240	Abcc1	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 1 (Abcc1), mRNA [NM_008576]
A_66_P113487	0,54	5,45	0,0098	Pacsin2	Mus musculus protein kinase C and casein kinase substrate in neurons 2 (Pacsin2), transcript variant 1, mRNA [NM_011862]
A_51_P160907	0,54	4,02	0,0290	Morc3	Mus musculus microorchidia 3 (Morc3), mRNA [NM_001045529]
A_52_P12877	0,54	4,20	0,0246	Hspa8	Mus musculus heat shock protein 8 (Hspa8), mRNA [NM_031165]
A_66_P116372	0,54	3,49	0,0480	Soat2	Mus musculus sterol O-acyltransferase 2 (Soat2), mRNA [NM_146064]
A_55_P2087984	0,54	3,85	0,0341	Dnaja1	Mus musculus DnaJ (Hsp40) homolog, subfamily A, member 1 (Dnaja1), transcript variant 1, mRNA [NM_001164671]
A_66_P137297	0,54	5,36	0,0103	Otof	Mus musculus otoferlin (Otof), transcript variant 2, mRNA [NM_031875]
A_55_P2105256	0,54	4,57	0,0183	Trim47	Mus musculus tripartite motif-containing 47 (Trim47), transcript variant 1, mRNA [NM_001205081]
A_55_P1998299	0,54	3,48	0,0482	Itgb4	Mus musculus integrin beta 4 (Itgb4), transcript variant 1, mRNA [NM_001005608]
A_55_P2153067	0,54	4,23	0,0240	2610028H24 Rik	Mus musculus RIKEN cDNA 2610028H24 gene (2610028H24Rik), mRNA [NM_029816]
A_55_P2001593	0,54	5,08	0,0124	Rnf180	Mus musculus ring finger protein 180 (Rnf180), mRNA [NM_027934]
A_55_P2171785	0,54	3,92	0,0319	Dnmt3aos	Mus musculus DNA methyltransferase 3A, opposite strand (Dnmt3aos), long non-coding RNA [NR_045884]
A_55_P2114269	0,53	3,78	0,0368	1700047117 Rik2	Mus musculus RIKEN cDNA 1700047117 gene 2 (1700047117Rik2), mRNA [NM_001100116]
A_55_P2024461	0,53	5,60	0,0089	Tbkbp1	Mus musculus TBK1 binding protein 1 (Tbkbp1), mRNA [NM_198100]
A_55_P1966585	0,53	4,26	0,0236	Bpifc	PREDICTED: Mus musculus BPI fold containing family C (Bpifc), transcript variant X1, mRNA [XM_006513696]
A_55_P2053491	0,53	7,36	0,0032	Pdia6	Mus musculus protein disulfide isomerase associated 6 (Pdia6), mRNA [NM_027959]
A_51_P246773	0,53	5,52	0,0093	Sesn3	Mus musculus sestrin 3 (Sesn3), mRNA [NM_030261]
A_55_P2167112	0,53	3,49	0,0480	Kank2	Mus musculus KN motif and ankyrin repeat domains 2 (Kank2), mRNA [NM_145611]
A_55_P1968723	0,53	3,90	0,0324	Ccrn4l	Mus musculus CCR4 carbon catabolite repression 4-like (S. cerevisiae) (Ccrn4l), mRNA [NM_009834]
A_52_P671812	0,53	3,72	0,0387	LOC102642432	PREDICTED: Mus musculus uncharacterized LOC102642432 (LOC102642432), ncRNA [XR_406738]
A_55_P2183493	0,53	5,04	0,0128	Spes3	Mus musculus signal peptidase complex subunit 3 homolog (S. cerevisiae) (Spes3), mRNA [NM_029701]
A_52_P445253	0,53	3,51	0,0473	Dst	Mus musculus dystonin (Dst), transcript variant 3, mRNA [NM_133833]
A_55_P2154208	0,53	4,56	0,0184	Zc3hav1	PREDICTED: Mus musculus zinc finger CCCH type, antiviral 1 (Zc3hav1), transcript variant X1, mRNA [XM_006506779]
A_55_P2006930	0,53	5,02	0,0130	2610005L07 Rik	Mus musculus RIKEN cDNA 6820431F20 gene, mRNA (cDNA clone MGC:36284 IMAGE:416337), complete cds. [BC025151]
A_55_P1977792	0,53	4,73	0,0160	Folr1	Mus musculus folate receptor 1 (adult) (Folr1), transcript variant 1, mRNA [NM_001252552]
A_55_P2007196	0,53	4,70	0,0163	Aldoa	Mus musculus aldolase A, fructose-bisphosphate (Aldoa), transcript variant 1, mRNA [NM_001177307]
A_55_P2391674	0,53	4,41	0,0207	4931407E12 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4931407E12 product:unclassifiable, full insert sequence. [AK016440]
A_55_P2169621	0,53	4,66	0,0169	Prorsd1	Mus musculus prolyl-tRNA synthetase domain containing 1 (Prorsd1), transcript variant 1, mRNA [NM_001163454]
A_51_P434670	0,53	5,34	0,0105	Qk	Mus musculus quaking (Qk), transcript variant 3, mRNA [NM_021881]
A_55_P1975714	0,53	5,69	0,0085	Tor1a1p1	Mus musculus torsin A interacting protein 1 (Tor1a1p1), transcript variant 1, mRNA [NM_001160018]
A_66_P110343	0,53	3,47	0,0487	Snx10	Mus musculus sorting nexin 10 (Snx10), transcript variant 1, mRNA [NM_028035]
A_55_P1979863	0,53	5,79	0,0080	Syne2	Mus musculus spectrin repeat containing, nuclear envelope 2 (Syne2), mRNA [NM_001005510]
A_51_P369803	0,53	6,52	0,0053	Psmb9	Mus musculus proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2) (Psmb9), mRNA [NM_013585]
A_51_P241074	0,53	4,21	0,0245	Map2k1	Mus musculus mitogen-activated protein kinase kinase 1 (Map2k1), mRNA [NM_008927]
A_55_P2401403	0,53	4,38	0,0212	C030046G05	Mus musculus adult male corpus striatum cDNA, RIKEN full-length enriched library, clone:C030046G05 product:unclassifiable, full insert sequence. [AK081287]
A_55_P2156731	0,53	4,04	0,0284	H2-Eb1	Mus musculus histocompatibility 2, class II antigen E beta (H2-Eb1), mRNA [NM_010382]
A_55_P2308488	0,53	5,45	0,0098	Tiam1	Mus musculus T cell lymphoma invasion and metastasis 1 (Tiam1), transcript variant 1, mRNA [NM_009384]
A_51_P416419	0,53	5,13	0,0120	Calr	Mus musculus calreticulin (Calr), mRNA [NM_007591]
A_55_P2134004	0,53	3,70	0,0394	Gstm2	Mus musculus glutathione S-transferase, mu 2 (Gstm2), mRNA [NM_008183]
A_51_P233101	0,53	4,17	0,0253	Ltbp3	Mus musculus latent transforming growth factor beta binding protein 3 (Ltbp3), mRNA [NM_008520]
A_51_P468599	0,52	5,94	0,0073	Smchd1	Mus musculus SMC hinge domain containing 1 (Smchd1), mRNA [NM_028887]
A_55_P2017491	0,52	5,23	0,0110	Rbm43	Mus musculus RNA binding motif protein 43 (Rbm43), transcript variant 2, mRNA [NM_001141981]
A_55_P2081925	0,52	5,24	0,0109	Zfp53	Mus musculus zinc finger protein 53 (Zfp53), mRNA [NM_013843]
A_55_P2000062	0,52	5,29	0,0107	Irf1	Mus musculus interferon regulatory factor 1 (Irf1), transcript variant 1, mRNA [NM_008390]

A_66_P123055	0,52	3,84	0,0345	Gm10845	Mus musculus predicted gene 10845 (Gm10845), long non-coding RNA [NR_033535]
A_55_P1998957	0,52	3,70	0,0391	Oas1c	Mus musculus 2'-5' oligoadenylate synthetase 1C (Oas1c), mRNA [NM_033541]
A_55_P2002578	0,52	4,49	0,0194	Ephx1	Mus musculus epoxide hydrolase 1, microsomal (Ephx1), mRNA [NM_010145]
A_55_P1966982	0,52	4,25	0,0237	Gsr	Mus musculus glutathione reductase (Gsr), mRNA [NM_010344]
A_51_P432563	0,52	4,25	0,0237	Tlr9	Mus musculus toll-like receptor 9 (Tlr9), mRNA [NM_031178]
A_55_P2263098	0,52	3,49	0,0481	A130078K24 Rik	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130078K24 product:unclassifiable, full insert sequence. [AK038100]
A_55_P2134566	0,52	3,91	0,0321	Fam71e1	PREDICTED: Mus musculus family with sequence similarity 71, member E1 (Fam71e1), transcript variant X3, mRNA [XM_006541244]
A_51_P115666	0,52	3,70	0,0394	Fam83h	Mus musculus family with sequence similarity 83, member H (Fam83h), transcript variant 2, mRNA [NM_134087]
A_55_P2150283	0,52	5,73	0,0084	E030030106 Rik	Mus musculus RIKEN cDNA E030030106 gene (E030030106Rik), transcript variant 2, mRNA [NM_001254745]
A_55_P2117243	0,52	3,61	0,0424	Npm1	Mus musculus nucleophosmin 1 (Npm1), transcript variant 3, mRNA [NM_001252261]
A_51_P440790	0,52	3,45	0,0500	Dpp7	Mus musculus dipeptidylpeptidase 7 (Dpp7), mRNA [NM_031843]
A_51_P204740	0,52	5,08	0,0124	Cd34	Mus musculus CD34 antigen (Cd34), transcript variant 2, mRNA [NM_133654]
A_55_P1967227	0,52	6,08	0,0067	Tmem158	Mus musculus transmembrane protein 158 (Tmem158), mRNA [NM_001002267]
A_55_P1990331	0,52	4,22	0,0242	Add1	Mus musculus adducin 1 (alpha) (Add1), transcript variant 3, mRNA [NM_001102444]
A_55_P2035613	0,52	4,87	0,0145	Tmbim1	Mus musculus transmembrane BAX inhibitor motif containing 1 (Tmbim1), mRNA [NM_027154]
A_55_P2124619	0,52	5,46	0,0097	Smurf2	Mus musculus SMAD specific E3 ubiquitin protein ligase 2 (Smurf2), mRNA [NM_025481]
A_55_P2043833	0,52	4,00	0,0296	Srgap2	Mus musculus SLIT-ROBO Rho GTPase activating protein 2 (Srgap2), mRNA [NM_001081011]
A_55_P1979973	0,52	4,07	0,0277	Nuak2	Mus musculus NUAK family, SNF1-like kinase, 2 (Nuak2), transcript variant A, mRNA [NM_001195025]
A_55_P2411907	0,52	4,79	0,0154	B230213L16 Rik	Mus musculus visual cortex cDNA, RIKEN full-length enriched library, clone:K530030A20 product:similar to Hypothetical phenylalanine-rich region containing protein [Mus musculus], full insert sequence. [AK159005]
A_55_P2094686	0,52	3,95	0,0309	2700089E24 Rik	Mus musculus RIKEN cDNA 2700089E24 gene (2700089E24Rik), transcript variant 2, mRNA [NM_001271583]
A_55_P1982628	0,51	5,07	0,0125	Tma16	Mus musculus translation machinery associated 16 homolog (S. cerevisiae) (Tma16), mRNA [NM_025465]
A_55_P1955233	0,51	4,57	0,0183	37681	Mus musculus membrane-associated ring finger (C3HC4) 3 (March3), mRNA [NM_177115]
A_55_P2010672	0,51	3,73	0,0384	Kif17	Mus musculus kinesin family member 17 (Kif17), transcript variant 1, mRNA [NM_010623]
A_51_P241861	0,51	4,74	0,0159	Tcigr1	Mus musculus T cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3 (Tcigr1), transcript variant 1, mRNA [NM_016921]
A_55_P1976743	0,51	4,16	0,0255	Sp110	PREDICTED: Mus musculus Sp110 nuclear body protein (Sp110), transcript variant X6, mRNA [XM_006529071]
A_55_P1991728	0,51	5,38	0,0102	Zfp956	Mus musculus zinc finger protein 956 (Zfp956), mRNA [NM_178898]
A_55_P2147842	0,51	4,12	0,0264	Zglp1	Mus musculus zinc finger, GATA-like protein 1 (Zglp1), mRNA [NM_001103168]
A_55_P2009582	0,51	4,17	0,0252	Nkg7	Mus musculus natural killer cell group 7 sequence (Nkg7), mRNA [NM_024253]
A_55_P2077448	0,51	4,40	0,0208	Epas1	Mus musculus endothelial PAS domain protein 1 (Epas1), mRNA [NM_010137]
A_66_P112006	0,51	3,88	0,0332	H2-T10	Mus musculus histocompatibility 2, T region locus 10 (H2-T10), transcript variant 1, mRNA [NM_010395]
A_55_P2099650	0,51	3,94	0,0313	Slc24a3	Mus musculus solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 (Slc24a3), mRNA [NM_053195]
A_55_P2298029	0,51	4,48	0,0196	Whsc1l1	Mus musculus Wolf-Hirschhorn syndrome candidate 1-like 1 (human) (Whsc1l1), transcript variant 2, mRNA [NM_001081269]
A_51_P224771	0,51	4,01	0,0294	Tmem184b	Mus musculus transmembrane protein 184b (Tmem184b), transcript variant 1, mRNA [NM_172608]
A_52_P555723	0,51	4,34	0,0221	Ywhag	Mus musculus tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide (Ywhag), mRNA [NM_018871]
A_51_P347961	0,51	5,76	0,0083	Npc2	Mus musculus Niemann-Pick type C2 (Npc2), mRNA [NM_023409]
A_51_P204080	0,51	4,38	0,0212	Hk2	Mus musculus hexokinase 2 (Hk2), mRNA [NM_013820]
A_55_P2176908	0,51	4,42	0,0205	Gm4858	Mus musculus predicted gene 4858 (Gm4858), transcript variant 1, mRNA [NM_001177694]
A_51_P321886	0,51	3,62	0,0422	Cmtm3	Mus musculus CKLF-like MARVEL transmembrane domain containing 3 (Cmtm3), mRNA [NM_024217]
A_55_P2106891	0,51	4,28	0,0231	Kcna5	Mus musculus potassium voltage-gated channel, shaker-related subfamily, member 5 (Kcna5), mRNA [NM_145983]
A_55_P2122334	0,51	3,77	0,0370	Nfic	Mus musculus nuclear factor I/C (Nfic), transcript variant 1, mRNA [NM_008688]
A_51_P117115	0,51	3,77	0,0370	Olfir53	Mus musculus olfactory receptor 53 (Olfir53), mRNA [NM_146960]
A_55_P2105242	0,51	4,71	0,0162	Arhgap39	Mus musculus Rho GTPase activating protein 39 (Arhgap39), transcript variant 1, mRNA [NM_001168288]
A_51_P159711	0,51	4,19	0,0249	Car7	Mus musculus carbonic anhydrase 7 (Car7), mRNA [NM_053070]
A_51_P338317	0,51	4,89	0,0144	Rhoq	Mus musculus ras homolog gene family, member Q (Rhoq), mRNA [NM_145491]

A_55_P1998601	0,51	4,46	0,0199	Slc17a9	Mus musculus solute carrier family 17, member 9 (Slc17a9), mRNA [NM_183161]
A_52_P483280	0,51	3,98	0,0302	Lamp2	Mus musculus lysosomal-associated membrane protein 2 (Lamp2), transcript variant 2, mRNA [NM_010685]
A_51_P207591	0,51	4,47	0,0197	Anxa8	Mus musculus annexin A8 (Anxa8), transcript variant 1, mRNA [NM_013473]
A_55_P2034260	0,51	5,09	0,0124	Ctdsp1	Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 1 (Ctdsp1), mRNA [NM_153088]
A_55_P1969645	0,50	3,92	0,0319	Sdcbp	Mus musculus syndecan binding protein (Sdcbp), transcript variant 1, mRNA [NM_001098227]
A_51_P291460	0,50	5,36	0,0103	Gm6498	Mus musculus predicted gene 6498 (Gm6498), non-coding RNA [NR_003630]
A_55_P2199040	0,50	3,62	0,0422	LOC102635358	PREDICTED: Mus musculus uncharacterized LOC102635358 (LOC102635358), ncRNA [XR_386689]
A_55_P2150555	0,50	4,67	0,0167	Pcgf5	Mus musculus polycomb group ring finger 5 (Pcgf5), mRNA [NM_029508]
A_52_P508089	0,50	3,57	0,0444	Psap	Mus musculus prosaposin (Psap), transcript variant 2, mRNA [NM_011179]
A_55_P2077555	0,50	3,92	0,0318	C330021F23 Rik	Mus musculus RIKEN cDNA C330021F23 gene (C330021F23Rik), mRNA [NM_001024728]
A_55_P2044953	0,50	3,95	0,0311	Lst1	Mus musculus leukocyte specific transcript 1 (Lst1), mRNA [NM_010734]
A_55_P2092085	0,50	3,83	0,0347	Tmsb10	Mus musculus thymosin, beta 10 (Tmsb10), transcript variant 1, mRNA [NM_001190327]
A_55_P2055762	0,50	4,11	0,0267	Gm5878	Mus musculus predicted gene 5878 (Gm5878), mRNA [NM_001034902]
A_51_P160544	0,50	4,00	0,0296	Efemp2	Mus musculus epidermal growth factor-containing fibulin-like extracellular matrix protein 2 (Efemp2), transcript variant 1, mRNA [NM_021474]
A_55_P2077613	0,50	4,74	0,0159	Fam102a	Mus musculus family with sequence similarity 102, member A (Fam102a), mRNA [NM_153560]
A_55_P2072373	0,50	4,49	0,0195	Msn	Mus musculus moesin (Msn), mRNA [NM_010833]
A_55_P2136880	0,50	5,35	0,0103	Ppp1r15a	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 15A (Ppp1r15a), mRNA [NM_008654]
A_51_P469968	0,50	4,80	0,0152	H2-M3	Mus musculus histocompatibility 2, M region locus 3 (H2-M3), mRNA [NM_013819]
A_66_P128440	0,50	4,27	0,0234	BB094273	Mus musculus 0 day neonate head cDNA, RIKEN full-length enriched library, clone:4833442K13 product:unclassifiable, full insert sequence. [AK029472]
A_55_P2130418	0,50	3,71	0,0389	Tmem51os1	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630066K19 product:unclassifiable, full insert sequence. [AK153738]
A_52_P592909	0,50	4,02	0,0290	Dgat2	Mus musculus diacylglycerol O-acyltransferase 2 (Dgat2), mRNA [NM_026384]
A_55_P2091928	0,50	4,62	0,0175	Raet1b	Mus musculus retinoic acid early transcript beta (Raet1b), mRNA [NM_009017]
A_55_P1977633	0,50	5,12	0,0121	Irf2bp1	Mus musculus interferon regulatory factor 2 binding protein-like (Irf2bp1), mRNA [NM_145836]
A_52_P518997	0,50	3,62	0,0421	Epha2	Mus musculus Eph receptor A2 (Epha2), mRNA [NM_010139]
A_55_P2292608	0,49	4,69	0,0165	LOC102639982	PREDICTED: Mus musculus uncharacterized LOC102639982 (LOC102639982), transcript variant X1, ncRNA [XR_389226]
A_55_P2010912	0,49	5,00	0,0132	Jak3	Mus musculus Janus kinase 3 (Jak3), transcript variant 2, mRNA [NM_001190830]
A_55_P2043987	0,49	4,01	0,0293	Luzp1	Mus musculus leucine zipper protein 1 (Luzp1), mRNA [NM_024452]
A_66_P119680	0,49	4,25	0,0237	Polr2e	Mus musculus polymerase (RNA) II (DNA directed) polypeptide E (Polr2e), mRNA [NM_025554]
A_55_P1953508	0,49	3,87	0,0334	Mob3c	Mus musculus MOB kinase activator 3C (Mob3c), mRNA [NM_175308]
A_55_P2104769	0,49	5,57	0,0090	Utf1	Mus musculus undifferentiated embryonic cell transcription factor 1 (Utf1), mRNA [NM_009482]
A_55_P2091153	0,49	4,46	0,0198	BC051142	Mus musculus cDNA sequence BC051142 (BC051142), transcript variant 2, mRNA [NM_001163855]
A_55_P2083449	0,49	3,71	0,0389	Spryd7	Mus musculus SPRY domain containing 7 (Spryd7), mRNA [NM_025697]
A_55_P1959985	0,49	3,88	0,0333	Alas1	Mus musculus aminolevulinic acid synthase 1 (Alas1), transcript variant 1, mRNA [NM_001291835]
A_52_P46085	0,49	4,82	0,0150	Mvp	Mus musculus major vault protein (Mvp), mRNA [NM_080638]
A_55_P2128324	0,49	3,93	0,0315	Ubap2l	Mus musculus ubiquitin-associated protein 2-like (Ubap2l), transcript variant 2, mRNA [NM_153489]
A_55_P2021892	0,49	4,00	0,0297	Ccdc114	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630055C05 product:hypothetical protein, full insert sequence. [AK042062]
A_55_P2092501	0,48	4,49	0,0194	Med1	Mus musculus mediator complex subunit 1 (Med1), transcript variant 2, mRNA [NM_134027]
A_52_P661	0,48	4,36	0,0215	Plkna4	Mus musculus plexin A4 (Plkna4), mRNA [NM_175750]
A_55_P2009427	0,48	4,50	0,0193	Nrsn2	Mus musculus neuroligin 2 (Nrsn2), mRNA [NM_001009948]
A_55_P1953336	0,48	3,50	0,0476	Wfdc3	Mus musculus WAP four-disulfide core domain 3 (Wfdc3), mRNA [NM_027961]
A_55_P1995173	0,48	5,13	0,0120	Odc1	Mus musculus ornithine decarboxylase, structural 1 (Odc1), mRNA [NM_013614]
A_55_P2076792	0,48	4,91	0,0142	Anxa6	Mus musculus annexin A6 (Anxa6), transcript variant 1, mRNA [NM_013472]
A_55_P2180415	0,48	3,64	0,0416	Cd72	Mus musculus CD72 antigen (Cd72), transcript variant 1, mRNA [NM_001110320]
A_55_P2030948	0,48	3,67	0,0404	Gm16524	PREDICTED: Mus musculus predicted gene, 16524 (Gm16524), ncRNA [XR_392825]
A_55_P2138961	0,48	4,34	0,0220	Tpk1	Mus musculus thiamine pyrophosphokinase (Tpk1), mRNA [NM_013861]



A_55_P2143279	0,48	3,86	0,0338	Nkd2	Mus musculus naked cuticle 2 homolog (Drosophila) (Nkd2), mRNA [NM_028186]
A_55_P2096465	0,48	5,68	0,0085	Gm6238	PREDICTED: Mus musculus predicted pseudogene 6238 (Gm6238), mRNA [XM_006544598]
A_55_P1959174	0,48	4,49	0,0195	Pmepa1	Mus musculus prostate transmembrane protein, androgen induced 1 (Pmepa1), mRNA [NM_022995]
A_51_P309158	0,48	5,99	0,0071	Snx20	Mus musculus sorting nexin 20 (Snx20), mRNA [NM_027840]
A_51_P155313	0,48	3,52	0,0465	Gsto1	Mus musculus glutathione S-transferase omega 1 (Gsto1), mRNA [NM_010362]
A_55_P2045258	0,48	3,60	0,0429	Ehd1	Mus musculus EH-domain containing 1 (Ehd1), mRNA [NM_010119]
A_55_P2177513	0,48	5,32	0,0106	Chrna2	Mus musculus cholinergic receptor, nicotinic, alpha polypeptide 2 (neuronal) (Chrna2), mRNA [NM_144803]
A_66_P111426	0,48	4,17	0,0253	Lce1a2	Mus musculus late cornified envelope 1A2 (Lce1a2), mRNA [NM_028625]
A_55_P2164724	0,48	5,29	0,0107	Gnaq	Mus musculus guanine nucleotide binding protein, alpha q polypeptide (Gnaq), mRNA [NM_008139]
A_55_P2112360	0,47	4,24	0,0239	Arhgap17	Mus musculus Rho GTPase activating protein 17 (Arhgap17), transcript variant 1, mRNA [NM_144529]
A_51_P229599	0,47	3,58	0,0440	Etnk1	Mus musculus ethanolamine kinase 1 (Etnk1), mRNA [NM_029250]
A_55_P1961270	0,47	4,40	0,0208	Cd72	Mus musculus CD72 antigen (Cd72), transcript variant 1, mRNA [NM_001110320]
A_51_P200083	0,47	4,77	0,0156	Grina	Mus musculus glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding) (Grina), mRNA [NM_023168]
A_55_P2064451	0,47	5,40	0,0100	Pced1a	Mus musculus PC-esterase domain containing 1A (Pced1a), transcript variant 1, mRNA [NM_178762]
A_51_P243134	0,47	3,86	0,0338	Adcy6	Mus musculus adenylate cyclase 6 (Adcy6), mRNA [NM_007405]
A_55_P2070825	0,47	3,95	0,0310	Nudt5	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 5 (Nudt5), mRNA [NM_016918]
A_55_P1976908	0,47	4,16	0,0255	Gm14378	Mus musculus predicted gene 14378 (Gm14378), mRNA [NM_001195258]
A_55_P2102126	0,47	4,03	0,0287	Lamp2	Mus musculus lysosomal-associated membrane protein 2 (Lamp2), transcript variant 1, mRNA [NM_001017959]
A_55_P2137476	0,47	3,60	0,0433	Mpv17	Mus musculus Mpv17 mitochondrial inner membrane protein (Mpv17), mRNA [NM_008622]
A_51_P281333	0,47	4,85	0,0148	St3gal6	Mus musculus ST3 beta-galactoside alpha-2,3-sialyltransferase 6 (St3gal6), mRNA [NM_018784]
A_55_P2025073	0,47	3,93	0,0315	Csf1r	Mus musculus colony stimulating factor 1 receptor (Csf1r), mRNA [NM_001037859]
A_55_P1955034	0,47	3,81	0,0354	Myo1c	Mus musculus myosin IC (Myo1c), transcript variant 2, mRNA [NM_001080774]
A_55_P2035102	0,47	4,97	0,0135	Odc1	Mus musculus ornithine decarboxylase, structural 1, mRNA (cDNA clone MGC:103389 IMAGE:6329274), complete cds. [BC083122]
A_55_P2108451	0,47	4,04	0,0284	Galns	Mus musculus galactosamine (N-acetyl)-6-sulfate sulfatase (Galns), transcript variant 1, mRNA [NM_016722]
A_55_P2015715	0,47	3,90	0,0325	Rab4a	Mus musculus RAB4A, member RAS oncogene family (Rab4a), mRNA [NM_009003]
A_55_P1996171	0,46	4,60	0,0178	Pcgf5	Mus musculus polycomb group ring finger 5 (Pcgf5), mRNA [NM_029508]
A_51_P444447	0,46	3,71	0,0390	Cebpd	Mus musculus CCAAT/enhancer binding protein (C/EBP), delta (Cebpd), mRNA [NM_007679]
A_55_P1999902	0,46	4,87	0,0145	Pip5k1a	phosphatidylinositol-4-phosphate 5-kinase, type 1 alpha [Source:MGI Symbol;Acc:MGI:107929] [ENSMUST00000107229]
A_52_P359502	0,46	5,44	0,0098	Pdxk	Mus musculus pyridoxal (pyridoxine, vitamin B6) kinase (Pdxk), mRNA [NM_172134]
A_52_P744437	0,46	5,22	0,0111	D930028M14 Rik	Mus musculus RIKEN cDNA D930028M14 gene (D930028M14Rik), transcript variant 1, long non-coding RNA [NR_045847]
A_55_P2184146	0,46	4,21	0,0243	D2hgdh	PREDICTED: Mus musculus D-2-hydroxyglutarate dehydrogenase (D2hgdh), transcript variant X2, mRNA [XM_006529969]
A_55_P2161055	0,46	4,53	0,0189	Trp63	Mus musculus transformation related protein 63 (Trp63), transcript variant 3, mRNA [NM_001127261]
A_55_P1998892	0,46	5,07	0,0125	Smox	Mus musculus spermine oxidase (Smox), transcript variant 1, mRNA [NM_001177833]
A_55_P2055819	0,46	4,29	0,0229	Adam15	Mus musculus a disintegrin and metallopeptidase domain 15 (metargidin) (Adam15), transcript variant 1, mRNA [NM_001037722]
A_55_P1953851	0,46	4,12	0,0265	Stk39	Mus musculus serine/threonine kinase 39 (Stk39), mRNA [NM_016866]
A_55_P2103944	0,46	5,67	0,0086	Mrpl30	Mus musculus mitochondrial ribosomal protein L30 (Mrpl30), mRNA [NM_027098]
A_55_P1977593	0,46	4,31	0,0225	Epc2	enhancer of polycomb homolog 2 (Drosophila) [Source:MGI Symbol;Acc:MGI:1278321] [ENSMUST00000092123]
A_55_P2142728	0,46	3,76	0,0371	Lrrc48	leucine rich repeat containing 48 [Source:MGI Symbol;Acc:MGI:1921915] [ENSMUST00000094140]
A_55_P2020894	0,46	4,60	0,0178	E2f7	Mus musculus E2F transcription factor 7 (E2f7), mRNA [NM_178609]
A_51_P117477	0,46	4,51	0,0191	Slc27a1	Mus musculus solute carrier family 27 (fatty acid transporter), member 1 (Slc27a1), mRNA [NM_011977]
A_55_P2116059	0,46	3,65	0,0413	Aim1	Mus musculus absent in melanoma 1 (Aim1), mRNA [NM_172393]
A_55_P2079713	0,46	3,84	0,0343	Gramd1c	Mus musculus GRAM domain containing 1C (Gramd1c), transcript variant 1, mRNA [NM_153528]
A_55_P1987222	0,46	4,72	0,0162	Fuom	fucose mutarotase [Source:MGI Symbol;Acc:MGI:1916314] [ENSMUST00000120034]
A_51_P403536	0,46	4,49	0,0194	Ltbp4	Mus musculus latent transforming growth factor beta binding protein 4 (Ltbp4), transcript variant 1, mRNA [NM_175641]
A_55_P2105843	0,46	5,30	0,0106	Mbd1	PREDICTED: Mus musculus methyl-CpG binding domain protein 1 (Mbd1), transcript variant X6, mRNA [XM_006525709]
A_55_P2048794	0,46	4,93	0,0139	Cd82	Mus musculus CD82 antigen (Cd82), transcript variant 3, mRNA [NM_001271432]

A_55_P2039284	0,45	3,45	0,0497	Hspb1	Mus musculus heat shock protein 1 (Hspb1), mRNA [NM_013560]
A_55_P2180491	0,45	3,61	0,0427	Rrbp1	Mus musculus ribosome binding protein 1 (Rrbp1), transcript variant 2, mRNA [NM_133626]
A_51_P342669	0,45	4,83	0,0150	Pgam1	Mus musculus phosphoglycerate mutase 1 (Pgam1), mRNA [NM_023418]
A_52_P282762	0,45	4,89	0,0144	Myd88	Mus musculus myeloid differentiation primary response gene 88 (Myd88), mRNA [NM_010851]
A_51_P338443	0,45	4,89	0,0144	Angptl4	Mus musculus angiopoietin-like 4 (Angptl4), mRNA [NM_020581]
A_51_P260658	0,45	4,94	0,0139	Amdhd2	Mus musculus amidohydrolase domain containing 2 (Amdhd2), mRNA [NM_172935]
A_51_P131800	0,45	4,30	0,0229	Cyba	Mus musculus cytochrome b-245, alpha polypeptide (Cyba), mRNA [NM_007806]
A_55_P1963868	0,45	4,84	0,0149	Plekho2	Mus musculus pleckstrin homology domain containing, family O member 2 (Plekho2), mRNA [NM_153119]
A_51_P483658	0,45	3,77	0,0369	Trim3	Mus musculus tripartite motif-containing 3 (Trim3), transcript variant 2, mRNA [NM_018880]
A_52_P570240	0,45	4,51	0,0191	Kbtbd11	Mus musculus kelch repeat and BTB (POZ) domain containing 11 (Kbtbd11), mRNA [NM_029116]
A_55_P2085574	0,45	3,76	0,0372	Nfix	Mus musculus nuclear factor I/X (Nfix), transcript variant 2, mRNA [NM_010906]
A_55_P1953809	0,45	4,15	0,0256	Pla2g16	Mus musculus phospholipase A2, group XVI (Pla2g16), mRNA [NM_139269]
A_55_P2065562	0,45	3,90	0,0324	Aldh3a1	Mus musculus aldehyde dehydrogenase family 3, subfamily A1 (Aldh3a1), transcript variant 1, mRNA [NM_007436]
A_55_P2185573	0,45	4,18	0,0251	Rbms1	Mus musculus RNA binding motif, single stranded interacting protein 1 (Rbms1), transcript variant 3, mRNA [NM_020296]
A_55_P2155312	0,45	3,96	0,0306	Dock3	Mus musculus dedicator of cyto-kinesis 3 (Dock3), mRNA [NM_153413]
A_51_P261059	0,45	3,79	0,0360	Cpne2	Mus musculus copine II (Cpne2), mRNA [NM_153507]
A_55_P2067505	0,45	3,57	0,0443	Slc16a3	Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 3 (Slc16a3), mRNA [NM_030696]
A_55_P1986296	0,44	3,89	0,0328	Tagln2	Mus musculus transgelin 2 (Tagln2), mRNA [NM_178598]
A_51_P233815	0,44	4,10	0,0269	Tmem126a	Mus musculus transmembrane protein 126A (Tmem126a), mRNA [NM_025460]
A_51_P411271	0,44	3,94	0,0313	Nfe2l2	Mus musculus nuclear factor, erythroid derived 2, like 2 (Nfe2l2), mRNA [NM_010902]
A_51_P330428	0,44	3,67	0,0402	Eif4ebp1	Mus musculus eukaryotic translation initiation factor 4E binding protein 1 (Eif4ebp1), mRNA [NM_007918]
A_55_P1953650	0,44	4,61	0,0175	Zdhc18	Mus musculus zinc finger, DHHC domain containing 18 (Zdhc18), mRNA [NM_001017968]
A_55_P2028159	0,44	5,01	0,0130	3110043021 Rik	Mus musculus RIKEN cDNA 3110043021 gene (3110043021Rik), mRNA [NM_001081343]
A_55_P1975155	0,44	4,78	0,0155	Galnt6	Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 6 (Galnt6), transcript variant 1, mRNA [NM_001161767]
A_55_P1991069	0,44	4,04	0,0285	Milr1	Mus musculus mast cell immunoglobulin like receptor 1 (Milr1), transcript variant 1, mRNA [NM_001033435]
A_55_P2094118	0,44	3,58	0,0438	Fmn13	Mus musculus formin-like 3 (Fmn13), mRNA [NM_011711]
A_55_P1954633	0,44	3,73	0,0382	Ssh2	Mus musculus slingshot homolog 2 (Drosophila) (Ssh2), transcript variant 2, mRNA [NM_001291190]
A_55_P2154982	0,44	3,57	0,0444	Cd8b1	Mus musculus CD8 antigen, beta chain 1 (Cd8b1), mRNA [NM_009858]
A_55_P1982762	0,44	3,64	0,0414	Hsd3b7	Mus musculus hydroxy-delta-5-steroid dehydrogenase, 3 beta-and steroid delta-isomerase 7 (Hsd3b7), transcript variant 1, mRNA [NM_133943]
A_66_P120347	0,44	3,45	0,0496	Sstr5	Mus musculus somatostatin receptor 5 (Sstr5), transcript variant 1, mRNA [NM_011425]
A_55_P2079430	0,44	4,16	0,0254	Spred1	Mus musculus sprouty protein with EVH-1 domain 1, related sequence (Spred1), transcript variant 1, mRNA [NM_033524]
A_55_P2028184	0,43	3,57	0,0441	Fhl3	Mus musculus four and a half LIM domains 3 (Fhl3), mRNA [NM_010213]
A_55_P1957845	0,43	4,61	0,0176	Tnfaip1	Mus musculus tumor necrosis factor, alpha-induced protein 1 (endothelial) (Tnfaip1), transcript variant 1, mRNA [NM_009395]
A_55_P1959425	0,43	3,85	0,0340	Slc16a3	Mus musculus solute carrier family 16 (monocarboxylic acid transporters), member 3 (Slc16a3), mRNA [NM_030696]
A_55_P1984561	0,43	4,71	0,0162	Cpne2	Mus musculus copine II (Cpne2), mRNA [NM_153507]
A_55_P2058681	0,43	4,28	0,0231	Tmc8	Mus musculus transmembrane channel-like gene family 8 (Tmc8), transcript variant A, mRNA [NM_001195088]
A_51_P437938	0,43	4,84	0,0149	Coa5	Mus musculus cytochrome C oxidase assembly factor 5 (Coa5), mRNA [NM_198006]
A_55_P2098057	0,43	3,70	0,0394	Sf3a2	Mus musculus splicing factor 3a, subunit 2 (Sf3a2), mRNA [NM_013651]
A_55_P2062054	0,43	4,91	0,0141	Dnbd2	Mus musculus dysbindin (dystrobrevin binding protein 1) domain containing 2 (Dnbd2), transcript variant 2, mRNA [NM_026797]
A_55_P2119257	0,43	4,19	0,0248	Serpine1	Mus musculus serine (or cysteine) peptidase inhibitor, clade E, member 1 (Serpine1), mRNA [NM_008871]
A_55_P2279575	0,43	3,45	0,0496	5430400D12 Rik	Mus musculus 6 days neonate head cDNA, RIKEN full-length enriched library, clone:5430400D12 product:unclassifiable, full insert sequence. [AK017243]
A_55_P2070079	0,43	4,65	0,0170	Lgals9	Mus musculus lectin, galactose binding, soluble 9 (Lgals9), transcript variant 1, mRNA [NM_010708]
A_66_P137943	0,43	3,90	0,0324	Tctn2	Mus musculus tectonic family member 2 (Tctn2), mRNA [NM_026486]
A_55_P2050727	0,43	4,06	0,0279	Fcrl5	Mus musculus Fc receptor-like 5 (Fcrl5), transcript variant 1, mRNA [NM_183222]
A_52_P453884	0,43	4,53	0,0189	Foxo1	Mus musculus forkhead box O1 (Foxo1), mRNA [NM_019739]
A_66_P110104	0,43	4,10	0,0268	Myo18b	Mus musculus myosin XVIIIb (Myo18b), mRNA [NM_028901]



A_55_P2055199	0,42	3,64	0,0416	Airn	Mus musculus antisense Igf2r RNA (Airn), transcript variant 4, long non-coding RNA [NR_027784]
A_55_P2178044	0,42	3,82	0,0351	Inpp1	Mus musculus inositol polyphosphate phosphatase-like 1 (Inpp1), transcript variant 1, mRNA [NM_010567]
A_66_P134383	0,42	4,93	0,0139	Gm5079	Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230040G06 product:unclassifiable, full insert sequence. [AK082358]
A_55_P1970105	0,42	3,92	0,0320	Ltp2	Mus musculus latent transforming growth factor beta binding protein 2 (Ltp2), mRNA [NM_013589]
A_55_P1979341	0,42	3,87	0,0334	Cyba	Mus musculus cytochrome b-245, alpha polypeptide (Cyba), mRNA [NM_007806]
A_66_P125634	0,42	3,66	0,0407	Wdr63	Mus musculus WD repeat domain 63 (Wdr63), mRNA [NM_172864]
A_55_P2049572	0,42	4,38	0,0211	Pld2	Mus musculus phospholipase D2 (Pld2), mRNA [NM_008876]
A_55_P2008538	0,42	4,81	0,0152	Chmp4b	Mus musculus charged multivesicular body protein 4B (Chmp4b), mRNA [NM_029362]
A_51_P127681	0,42	3,48	0,0485	Clic4	Mus musculus chloride intracellular channel 4 (mitochondrial) (Clic4), mRNA [NM_013885]
A_55_P1977917	0,42	3,75	0,0374	Cln3	Mus musculus ceroid lipofuscinosis, neuronal 3, juvenile (Batten, Spielmeier-Vogt disease) (Cln3), transcript variant 1, mRNA [NM_001146311]
A_55_P2145908	0,42	4,90	0,0143	Phb	Mus musculus prohibitin (Phb), mRNA [NM_008831]
A_55_P2016675	0,42	3,64	0,0414	Ogfr	Mus musculus opioid growth factor receptor (Ogfr), mRNA [NM_031373]
A_55_P2125208	0,41	4,23	0,0239	Arid5a	Mus musculus AT rich interactive domain 5A (MRF1-like) (Arid5a), transcript variant 5, mRNA [NM_001290726]
A_55_P1954544	0,41	4,07	0,0275	Zfp446	Mus musculus zinc finger protein 446 (Zfp446), transcript variant 3, mRNA [NM_001168562]
A_52_P233335	0,41	3,75	0,0374	Pphln1	Mus musculus periphilin 1 (Pphln1), transcript variant 1, mRNA [NM_146062]
A_55_P2071601	0,41	3,52	0,0466	Ppara	Mus musculus peroxisome proliferator activated receptor alpha (Ppara), transcript variant 1, mRNA [NM_011144]
A_51_P295625	0,41	3,68	0,0401	Arf4	Mus musculus ADP-ribosylation factor 4 (Arf4), mRNA [NM_007479]
A_55_P2166985	0,41	3,98	0,0302	Dedd2	Mus musculus death effector domain-containing DNA binding protein 2 (Dedd2), mRNA [NM_207677]
A_55_P2018847	0,41	4,87	0,0145	Crlf2	Mus musculus cytokine receptor-like factor 2 (Crlf2), transcript variant 1, mRNA [NM_001164735]
A_55_P2010936	0,41	4,13	0,0261	Fbxo17	Mus musculus F-box protein 17 (Fbxo17), mRNA [NM_015796]
A_55_P2067453	0,41	3,68	0,0401	Tspan17	Mus musculus tetraspanin 17 (Tspan17), mRNA [NM_028841]
A_52_P432580	0,41	4,17	0,0252	Arid5b	PREDICTED: Mus musculus AT rich interactive domain 5B (MRF1-like) (Arid5b), transcript variant X1, mRNA [XM_006514129]
A_55_P2023076	0,41	5,12	0,0120	Arpc1b	Mus musculus actin related protein 2/3 complex, subunit 1B (Arpc1b), mRNA [NM_023142]
A_55_P2005055	0,41	4,44	0,0200	Pepd	Mus musculus peptidase D (Pepd), mRNA [NM_008820]
A_55_P2007966	0,41	5,02	0,0130	Tmem215	Mus musculus transmembrane protein 215 (Tmem215), transcript variant 1, mRNA [NM_177175]
A_55_P2010778	0,41	4,92	0,0141	Il11ra1	Mus musculus interleukin 11 receptor, alpha chain 1 (Il11ra1), transcript variant 3, mRNA [NM_001172054]
A_55_P2061094	0,40	3,57	0,0445	Fnta	Mus musculus farnesyltransferase, CAAX box, alpha (Fnta), mRNA [NM_008033]
A_55_P1972490	0,40	4,39	0,0209	Psg16	PREDICTED: Mus musculus pregnancy specific glycoprotein 16 (Psg16), transcript variant X2, mRNA [XM_006540002]
A_55_P2085295	0,40	4,31	0,0225	Inf2	Mus musculus inverted formin, FH2 and WH2 domain containing (Inf2), mRNA [NM_198411]
A_55_P2128042	0,40	4,54	0,0187	LOC102633612	PREDICTED: Mus musculus helicase SRCAP-like (LOC102633612), mRNA [XM_006543203]
A_55_P2121945	0,40	3,56	0,0446	Cnot6l	Mus musculus CCR4-NOT transcription complex, subunit 6-like (Cnot6l), transcript variant 3, mRNA [NM_001285511]
A_55_P1967266	0,40	3,79	0,0364	Plxnb2	Mus musculus plexin B2 (Plxnb2), transcript variant 1, mRNA [NM_001159521]
A_55_P2073059	0,40	3,75	0,0374	Trim9	Mus musculus tripartite motif-containing 9 (Trim9), transcript variant 3, mRNA [NM_001110203]
A_55_P2166555	0,40	4,32	0,0224	Gm5637	PREDICTED: Mus musculus predicted pseudogene 5637 (Gm5637), mRNA [XM_006544567]
A_55_P2083009	0,40	4,29	0,0229	Catsperd	Mus musculus catsper channel auxiliary subunit delta (Catsperd), mRNA [NM_175350]
A_55_P2138090	0,40	3,79	0,0363	U2af114	Mus musculus U2 small nuclear RNA auxiliary factor 1-like 4 (U2af114), mRNA [NM_170760]
A_55_P2271742	0,40	3,90	0,0325	C230037L09	Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230037L09 product:unclassifiable, full insert sequence. [AK082324]
A_66_P109800	0,39	3,50	0,0474	Gcsh	Mus musculus glycine cleavage system protein H (aminomethyl carrier) (Gcsh), mRNA [NM_026572]
A_55_P2095153	0,39	3,62	0,0422	Pdf	Mus musculus peptide deformylase (mitochondrial) (Pdf), mRNA [NM_026513]
A_55_P2027107	0,39	4,02	0,0289	Rgs3	Mus musculus regulator of G-protein signaling 3 (Rgs3), transcript variant 2, mRNA [NM_134257]
A_55_P2226660	0,39	3,93	0,0317	5033418A18 Rik	Mus musculus 11 days pregnant adult female ovary and uterus cDNA, RIKEN full-length enriched library, clone:5033418A18 product:unclassifiable, full insert sequence. [AK017178]
A_51_P467448	0,39	3,89	0,0327	Pif1	Mus musculus PIF1 5'-to-3' DNA helicase homolog (S. cerevisiae) (Pif1), mRNA [NM_172453]
A_51_P243207	0,39	3,62	0,0421	Zfp574	Mus musculus zinc finger protein 574 (Zfp574), transcript variant 1, mRNA [NM_175477]
A_55_P2037608	0,39	3,81	0,0357	Acp5	Mus musculus acid phosphatase 5, tartrate resistant (Acp5), transcript variant 1, mRNA [NM_001102405]
A_55_P2141860	0,39	3,82	0,0350	Aen	Mus musculus apoptosis enhancing nuclease (Aen), transcript variant 1, mRNA [NM_026531]

A_55_P2128499	0,39	3,97	0,0304	Mgl2	Mus musculus macrophage galactose N-acetyl-galactosamine specific lectin 2 (Mgl2), mRNA [NM_145137]
A_55_P2071059	0,39	4,08	0,0273	Nab2	Mus musculus Ngfi-A binding protein 2 (Nab2), transcript variant 1, mRNA [NM_008668]
A_55_P2060107	0,39	3,82	0,0350	Pkm	Mus musculus pyruvate kinase, muscle (Pkm), transcript variant 1, mRNA [NM_001253883]
A_55_P2076989	0,39	3,49	0,0477	Pkd1l2	polycystic kidney disease 1 like 2 [Source:MGI Symbol;Acc:MGI:2664668] [ENSMUST00000162080]
A_55_P1966114	0,39	3,98	0,0301	Epn2	Mus musculus epsin 2 (Epn2), transcript variant 1, mRNA [NM_001252188]
A_55_P1969745	0,39	3,56	0,0448	Pitpnm1	Mus musculus phosphatidylinositol transfer protein, membrane-associated 1 (Pitpnm1), transcript variant 1, mRNA [NM_008851]
A_51_P433824	0,39	3,76	0,0374	Tpi1	Mus musculus triosephosphate isomerase 1 (Tpi1), mRNA [NM_009415]
A_55_P1990134	0,39	4,07	0,0276	Cox18	Mus musculus cytochrome c oxidase assembly protein 18 (Cox18), transcript variant 1, mRNA [NM_001163456]
A_55_P2185605	0,39	4,44	0,0200	Cd48	Mus musculus CD48 antigen (Cd48), mRNA [NM_007649]
A_55_P1969820	0,38	4,20	0,0246	Slc36a1	Mus musculus solute carrier family 36 (proton/amino acid symporter), member 1 (Slc36a1), mRNA [NM_153139]
A_51_P171200	0,38	3,54	0,0457	Golm1	Mus musculus golgi membrane protein 1 (Golm1), transcript variant 1, mRNA [NM_027307]
A_51_P407074	0,38	3,54	0,0458	Tspan31	Mus musculus tetraspanin 31 (Tspan31), mRNA [NM_025982]
A_55_P1977245	0,38	3,55	0,0454	Slc22a13	Mus musculus solute carrier family 22 (organic cation transporter), member 13 (Slc22a13), mRNA [NM_133980]
A_55_P1953593	0,38	3,94	0,0313	Ece2	Mus musculus endothelin converting enzyme 2 (Ece2), transcript variant 3, mRNA [NM_025462]
A_55_P2032695	0,38	3,67	0,0405	Zcchc11	Mus musculus zinc finger, CCHC domain containing 11 (Zcchc11), mRNA [NM_175472]
A_51_P211491	0,38	3,50	0,0475	Gusb	Mus musculus glucuronidase, beta (Gusb), mRNA [NM_010368]
A_51_P300709	0,38	3,96	0,0308	Srm	Mus musculus spermidine synthase (Srm), mRNA [NM_009272]
A_55_P2078257	0,38	3,65	0,0413	Gm10183	Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830215C05 product:hypothetical protein, full insert sequence. [AK172566]
A_55_P2035892	0,38	3,63	0,0417	Prkcsh	Mus musculus protein kinase C substrate 80K-H (Prkcsh), mRNA [NM_008925]
A_55_P2045812	0,38	4,12	0,0265	Sigmar1	Mus musculus sigma non-opioid intracellular receptor 1 (Sigmar1), transcript variant 1, mRNA [NM_011014]
A_55_P2027102	0,37	3,92	0,0319	Rgs3	Mus musculus regulator of G-protein signaling 3 (Rgs3), transcript variant 2, mRNA [NM_134257]
A_55_P2023484	0,37	3,64	0,0416	Osbpl5	Mus musculus oxysterol binding protein-like 5 (Osbpl5), transcript variant 1, mRNA [NM_024289]
A_55_P1967025	0,37	3,77	0,0368	Thoc7	Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130104E13 product:hypothetical protein, full insert sequence. [AK143106]
A_55_P1995012	0,37	4,13	0,0262	Plekhn2	Mus musculus pleckstrin homology domain containing, family M (with RUN domain) member 2 (Plekhn2), mRNA [NM_001033150]
A_55_P2000039	0,37	4,12	0,0265	Prf1	Mus musculus perforin 1 (pore forming protein) (Prf1), mRNA [NM_011073]
A_66_P115959	0,37	3,74	0,0379	1700016H13 Rik	Mus musculus RIKEN cDNA 1700016H13 gene (1700016H13Rik), transcript variant 2, mRNA [NM_001163550]
A_51_P345367	0,37	4,67	0,0167	Psmb8	Mus musculus proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7) (Psmb8), mRNA [NM_010724]
A_55_P2112403	0,37	3,56	0,0450	Olfir1008	Mus musculus olfactory receptor 1008 (Olfir1008), mRNA [NM_146866]
A_51_P334685	0,37	4,80	0,0152	Esy1	Mus musculus extended synaptotagmin-like protein 1 (Esy1), mRNA [NM_011843]
A_55_P2020602	0,37	3,80	0,0357	Pacsin1	Mus musculus protein kinase C and casein kinase substrate in neurons 1 (Pacsin1), transcript variant 3, mRNA [NM_001286743]
A_55_P2000668	0,37	3,49	0,0479	Stxbp2	Mus musculus syntaxin binding protein 2 (Stxbp2), mRNA [NM_011503]
A_51_P349878	0,37	3,82	0,0350	Txndc17	Mus musculus thioredoxin domain containing 17 (Txndc17), mRNA [NM_026559]
A_51_P236864	0,37	3,67	0,0405	Parp8	Mus musculus poly (ADP-ribose) polymerase family, member 8 (Parp8), mRNA [NM_001081009]
A_55_P2145804	0,36	3,89	0,0329	Aen	Mus musculus apoptosis enhancing nuclease (Aen), transcript variant 1, mRNA [NM_026531]
A_55_P2106175	0,36	3,70	0,0393	Gch1	Mus musculus GTP cyclohydrolase 1 (Gch1), mRNA [NM_008102]
A_55_P1965836	0,36	3,47	0,0489	Crebbp	Mus musculus CREB binding protein (Crebbp), mRNA [NM_001025432]
A_55_P2089358	0,36	4,24	0,0238	Hspe1	Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA [NM_008303]
A_55_P2136533	0,36	3,62	0,0423	Kmt2d	Mus musculus lysine (K)-specific methyltransferase 2D (Kmt2d), mRNA [NM_001033276]
A_55_P1993493	0,36	4,04	0,0286	Efr3a	Mus musculus EFR3 homolog A (S. cerevisiae) (Efr3a), mRNA [NM_133766]
A_65_P12392	0,36	3,62	0,0422	Timp2	Mus musculus tissue inhibitor of metalloproteinase 2 (Timp2), mRNA [NM_011594]
A_55_P1999172	0,36	3,68	0,0401	Nat10	Mus musculus N-acetyltransferase 10 (Nat10), mRNA [NM_153126]
A_51_P496845	0,36	3,57	0,0441	Capza2	Mus musculus capping protein (actin filament) muscle Z-line, alpha 2 (Capza2), mRNA [NM_007604]
A_52_P520408	0,36	3,76	0,0372	Serp1	Mus musculus stress-associated endoplasmic reticulum protein 1 (Serp1), mRNA [NM_030685]
A_55_P1983209	0,36	3,51	0,0472	Rcbtb1	Mus musculus regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 1 (Rcbtb1), mRNA [NM_027764]
A_55_P2179030	0,36	3,90	0,0326	Ostf1	Mus musculus osteoclast stimulating factor 1 (Ostf1), mRNA [NM_017375]

A_55_P1982156	0,35	3,65	0,0410	Nelfcd	Mus musculus negative elongation factor complex member C/D, Th11 (Nelfcd), mRNA [NM_020580]
A_55_P2403453	0,35	3,52	0,0469	BC037032	Mus musculus cDNA Sequence BC037032 (BC037032), long non-coding RNA [NR_028266]
A_55_P1984422	0,35	3,80	0,0360	Nme2	Mus musculus NME/NM23 nucleoside diphosphate kinase 2 (Nme2), transcript variant 2, mRNA [NM_001077529]
A_65_P17700	0,35	3,76	0,0373	Apobec3	Mus musculus apolipoprotein B mRNA editing enzyme, catalytic polypeptide 3 (Apobec3), transcript variant 1, mRNA [NM_001160415]
A_55_P1989663	0,35	3,47	0,0491	Slco3a1	Mus musculus solute carrier carrier organic anion transporter family, member 3a1 (Slco3a1), transcript variant 1, mRNA [NM_023908]
A_55_P1975695	0,35	3,50	0,0475	Snx18	Mus musculus sorting nexin 18 (Snx18), mRNA [NM_130796]
A_51_P122246	0,35	4,20	0,0247	Creld2	Mus musculus cysteine-rich with EGF-like domains 2 (Creld2), mRNA [NM_029720]
A_55_P2130716	0,35	4,54	0,0187	Ube2g2	Mus musculus ubiquitin-conjugating enzyme E2G 2 (Ube2g2), mRNA [NM_019803]
A_66_P129800	0,35	3,49	0,0477	Rab8b	Mus musculus RAB8B, member RAS oncogene family (Rab8b), mRNA [NM_173413]
A_55_P2001948	0,34	3,54	0,0456	Cab39l	Mus musculus calcium binding protein 39-like (Cab39l), mRNA [NM_026908]
A_52_P431859	0,34	3,81	0,0354	201011101Rik	Mus musculus RIKEN cDNA 201011101 gene (201011101Rik), transcript variant 1, mRNA [NM_001289924]
A_55_P1955587	0,34	3,69	0,0396	Hspd1	Mus musculus heat shock protein 1 (chaperonin) (Hspd1), mRNA [NM_010477]
A_51_P472901	0,34	3,53	0,0460	Slc3a2	Mus musculus solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2 (Slc3a2), transcript variant 2, mRNA [NM_008577]
A_55_P2003951	0,34	3,73	0,0381	Tmem192	Mus musculus transmembrane protein 192 (Tmem192), transcript variant 1, mRNA [NM_028427]
A_51_P510849	0,34	3,80	0,0359	Tmem50b	Mus musculus transmembrane protein 50B (Tmem50b), mRNA [NM_030018]
A_55_P2165074	0,34	3,69	0,0398	Rnf31	Mus musculus ring finger protein 31 (Rnf31), mRNA [NM_194346]
A_55_P1987201	0,34	3,51	0,0473	Capn2	Mus musculus calpain 2 (Capn2), mRNA [NM_009794]
A_55_P2047748	0,33	3,61	0,0426	Mafg	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein G (avian) [Source:MGI Symbol;Acc:MGI:96911] [ENSMUST00000058162]
A_51_P293982	0,33	3,74	0,0380	Plekho2	Mus musculus pleckstrin homology domain containing, family O member 2 (Plekho2), mRNA [NM_153119]
A_52_P84096	0,33	3,45	0,0500	Pgd	Mus musculus phosphogluconate dehydrogenase (Pgd), mRNA [NM_001081274]
A_66_P112853	0,33	4,21	0,0244	Eif1a	Mus musculus eukaryotic translation initiation factor 1A (Eif1a), mRNA [NM_010120]
A_55_P2000553	0,32	3,65	0,0411	Slc6a8	Mus musculus solute carrier family 6 (neurotransmitter transporter, creatine), member 8 (Slc6a8), transcript variant 1, mRNA [NM_133987]
A_55_P2010223	0,32	3,78	0,0366	Gabarap	Mus musculus gamma-aminobutyric acid receptor associated protein (Gabarap), mRNA [NM_019749]
A_55_P2060752	0,31	3,54	0,0456	Usp12	Mus musculus ubiquitin specific peptidase 12 (Usp12), mRNA [NM_011669]
A_55_P2166349	0,31	4,26	0,0235	Dnajc19	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 19 (Dnajc19), transcript variant 3, mRNA [NM_001286972]
A_66_P124952	0,31	3,69	0,0398	Hspe1	Mus musculus heat shock protein 1 (chaperonin 10) (Hspe1), mRNA [NM_008303]
A_55_P1972263	0,31	4,11	0,0266	Nop56	Mus musculus NOP56 ribonucleoprotein homolog (yeast), mRNA (cDNA clone IMAGE:3491448), partial cds. [BC002231]
A_51_P138044	0,31	3,65	0,0410	Foxo1	Mus musculus forkhead box O1 (Foxo1), mRNA [NM_019739]
A_55_P1969311	0,31	3,98	0,0300	Gramd1b	Mus musculus GRAM domain containing 1B (Gramd1b), mRNA [NM_172768]
A_55_P2016426	0,31	3,46	0,0491	Nova2	Mus musculus neuro-oncological ventral antigen 2 (Nova2), mRNA [NM_001029877]
A_55_P2110200	0,31	3,72	0,0385	Ubox5	Mus musculus U box domain containing 5 (Ubox5), transcript variant 1, mRNA [NM_001255993]
A_55_P1971458	0,31	3,55	0,0454	Jak2	Mus musculus Janus kinase 2 (Jak2), transcript variant 1, mRNA [NM_008413]
A_55_P1960416	0,30	3,84	0,0345	Nrros	Mus musculus negative regulator of reactive oxygen species (Nrros), mRNA [NM_146069]
A_55_P2082806	0,30	3,65	0,0412	Trib1	Mus musculus tribbles homolog 1 (Drosophila) (Trib1), mRNA [NM_144549]
A_55_P2010020	0,30	3,62	0,0422	LOC100862466	PREDICTED: Mus musculus 40S ribosomal protein S19-like (LOC100862466), misc_RNA [XR_389864]
A_51_P520384	0,30	3,62	0,0422	Atp1b3	Mus musculus ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 3 polypeptide (Atp1b3), mRNA [NM_007502]
A_52_P533146	0,30	3,53	0,0463	Ddit3	Mus musculus DNA-damage inducible transcript 3 (Ddit3), transcript variant 1, mRNA [NM_007837]
A_55_P2171463	0,29	3,92	0,0319	Nptn	Mus musculus neuropilin (Nptn), mRNA [NM_009145]
A_55_P2016959	0,29	3,59	0,0436	Nme2	Mus musculus NME/NM23 nucleoside diphosphate kinase 2 (Nme2), transcript variant 2, mRNA [NM_001077529]
A_51_P222475	0,27	3,52	0,0468	Ehbp11l	Mus musculus EH domain binding protein 1-like 1 (Ehbp11l), transcript variant B, mRNA [NM_053252]
A_51_P222467	0,27	3,48	0,0486	Abcg1	Mus musculus ATP-binding cassette, sub-family G (WHITE), member 1 (Abcg1), mRNA [NM_009593]
A_55_P1969746	0,26	3,50	0,0475	Pitpnm1	Mus musculus phosphatidylinositol transfer protein, membrane-associated 1 (Pitpnm1), transcript variant 1, mRNA [NM_008851]
A_51_P428715	-0,25	-3,46	0,0495	Mrpl13	Mus musculus mitochondrial ribosomal protein L13 (Mrpl13), mRNA [NM_026759]
A_55_P2172299	-0,25	-3,47	0,0488	Timm17b	Mus musculus translocase of inner mitochondrial membrane 17b, mRNA (cDNA clone MGC:6564 IMAGE:281177), complete cds. [BC008275]
A_55_P2010861	-0,27	-3,71	0,0389	Mrps23	Mus musculus mitochondrial ribosomal protein S23 (Mrps23), transcript variant 3, mRNA [NM_001291271]

A_55_P1981550	-0,27	-3,57	0,0441	Park7	Mus musculus Parkinson disease (autosomal recessive, early onset) 7 (Park7), mRNA [NM_020569]
A_51_P372463	-0,27	-3,46	0,0494	Fxr1	Mus musculus fragile X mental retardation gene 1, autosomal homolog (Fxr1), transcript variant 3, mRNA [NM_008053]
A_55_P2038952	-0,27	-3,59	0,0436	Ubb	Mus musculus ubiquitin B (Ubb), mRNA [NM_011664]
A_51_P196395	-0,28	-3,77	0,0369	1110004E09Rik	Mus musculus RIKEN cDNA 1110004E09 gene (1110004E09Rik), mRNA [NM_026502]
A_55_P2117843	-0,28	-3,72	0,0388	Coasy	Mus musculus Coenzyme A synthase (Coasy), mRNA [NM_027896]
A_55_P2001891	-0,28	-3,47	0,0490	Prps1	Mus musculus phosphoribosyl pyrophosphate synthetase 1 (Prps1), mRNA [NM_021463]
A_51_P192751	-0,28	-3,63	0,0418	Mrpl14	Mus musculus mitochondrial ribosomal protein L14 (Mrpl14), mRNA [NM_026732]
A_55_P2101910	-0,28	-3,71	0,0388	Rpl13a	Mus musculus ribosomal protein L13A (Rpl13a), mRNA [NM_009438]
A_55_P2111005	-0,28	-3,50	0,0475	Pafah1b1	Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, subunit 1 (Pafah1b1), transcript variant 1, mRNA [NM_013625]
A_66_P124788	-0,28	-3,59	0,0435	Tbcb	Mus musculus tubulin folding cofactor B (Tbcb), mRNA [NM_025548]
A_51_P211822	-0,28	-3,45	0,0497	Neur4	Mus musculus neuralized homolog 4 (Drosophila) (Neur4), transcript variant 1, mRNA [NM_001013414]
A_52_P242724	-0,28	-3,51	0,0473	Opa1	Mus musculus optic atrophy 1 (Opa1), transcript variant 1, mRNA [NM_001199177]
A_52_P540434	-0,28	-3,61	0,0424	Ppp1cc	Mus musculus protein phosphatase 1, catalytic subunit, gamma isoform (Ppp1cc), mRNA [NM_013636]
A_51_P379597	-0,28	-3,80	0,0358	Ndufs1	Mus musculus NADH dehydrogenase (ubiquinone) Fe-S protein 1 (Ndufs1), transcript variant 4, mRNA [NM_145518]
A_51_P125446	-0,28	-3,45	0,0498	Lzic	Mus musculus leucine zipper and CTNBP1 domain containing (Lzic), mRNA [NM_026963]
A_55_P2003688	-0,29	-3,55	0,0454	Tmem143	Mus musculus transmembrane protein 143 (Tmem143), mRNA [NM_144801]
A_51_P201773	-0,29	-3,63	0,0418	Tubgcp3	Mus musculus tubulin, gamma complex associated protein 3 (Tubgcp3), mRNA [NM_198031]
A_66_P139493	-0,29	-3,53	0,0461	C330006A16Rik	Mus musculus RIKEN cDNA C330006A16 gene (C330006A16Rik), transcript variant 1, mRNA [NM_001256521]
A_51_P439452	-0,29	-3,68	0,0401	Insig2	Mus musculus insulin induced gene 2 (Insig2), transcript variant 1, mRNA [NM_133748]
A_51_P376149	-0,29	-3,49	0,0479	N6amt2	Mus musculus N-6 adenine-specific DNA methyltransferase 2 (putative) (N6amt2), mRNA [NM_026526]
A_51_P312310	-0,29	-3,51	0,0473	Mtbp	Mus musculus Mdm2, transformed 3T3 cell double minute p53 binding protein (Mtbp), transcript variant 1, mRNA [NM_134092]
A_55_P1978481	-0,29	-3,54	0,0455	Nr1h2	Mus musculus nuclear receptor subfamily 1, group H, member 2 (Nr1h2), transcript variant 1, mRNA [NM_009473]
A_52_P527500	-0,29	-3,56	0,0446	Helb	Mus musculus helicase (DNA) B (Helb), mRNA [NM_080446]
A_51_P346104	-0,29	-3,78	0,0365	Sgta	Mus musculus small glutamine-rich tetratricopeptide repeat (TPR)-containing, alpha (Sgta), mRNA [NM_024499]
A_51_P260871	-0,29	-3,83	0,0347	Sdhd	Mus musculus succinate dehydrogenase complex, subunit D, integral membrane protein (Sdhd), mRNA [NM_025848]
A_51_P249051	-0,29	-3,89	0,0330	Pycr2	Mus musculus pyrroline-5-carboxylate reductase family, member 2 (Pycr2), mRNA [NM_133705]
A_55_P2069392	-0,29	-3,84	0,0346	LOC102642045	PREDICTED: Mus musculus histone H3.3-like (LOC102642045), mRNA [XM_006544749]
A_51_P140368	-0,29	-3,69	0,0395	Cmc2	Mus musculus COX assembly mitochondrial protein 2 (Cmc2), mRNA [NM_026844]
A_51_P346884	-0,29	-3,92	0,0320	Snrnp27	Mus musculus small nuclear ribonucleoprotein 27 (U4/U6.U5) (Snrnp27), mRNA [NM_025665]
A_55_P2038737	-0,29	-3,94	0,0314	Slc29a1	Mus musculus solute carrier family 29 (nucleoside transporters), member 1 (Slc29a1), transcript variant 1, mRNA [NM_001199113]
A_51_P224575	-0,30	-3,52	0,0467	Gnpat	Mus musculus glyceronephosphate O-acyltransferase (Gnpat), mRNA [NM_010322]
A_51_P196590	-0,30	-3,91	0,0321	Hadh	Mus musculus hydroxyacyl-Coenzyme A dehydrogenase (Hadh), mRNA [NM_008212]
A_55_P2035877	-0,30	-3,45	0,0498	2610002J02Rik	Mus musculus RIKEN cDNA 2610002J02 gene (2610002J02Rik), transcript variant 1, mRNA [NM_001190445]
A_55_P1956989	-0,30	-3,59	0,0435	BC004004	Mus musculus cDNA sequence BC004004 (BC004004), mRNA [NM_030561]
A_51_P450021	-0,30	-3,51	0,0470	Higd2a	Mus musculus HIG1 domain family, member 2A (Higd2a), mRNA [NM_025933]
A_55_P2061701	-0,30	-3,85	0,0341	Osgep	Mus musculus O-sialoglycoprotein endopeptidase (Osgep), mRNA [NM_133676]
A_55_P1984496	-0,30	-3,56	0,0448	Usp48	Mus musculus ubiquitin specific peptidase 48 (Usp48), mRNA [NM_130879]
A_55_P2070769	-0,30	-3,57	0,0441	Dus1l	Mus musculus dihydrouridine synthase 1-like (S. cerevisiae) (Dus1l), mRNA [NM_026824]
A_51_P290139	-0,30	-4,03	0,0286	Dlst	Mus musculus dihydroliipoamide S-succinyltransferase (E2 component of 2-oxo-glutarate complex) (Dlst), mRNA [NM_030225]
A_66_P139876	-0,30	-3,63	0,0418	Psph	Mus musculus phosphoserine phosphatase (Psph), mRNA [NM_133900]
A_55_P2020831	-0,30	-3,55	0,0453	Tmem234	transmembrane protein 234 [Source:MGI Symbol;Acc:MGI:1924049] [ENSMUST00000152126]
A_55_P2149719	-0,30	-4,19	0,0249	Atp5k	ATP synthase, H+ transporting, mitochondrial F1F0 complex, subunit e [Source:MGI Symbol;Acc:MGI:106636] [ENSMUST00000049628]
A_51_P286142	-0,30	-3,73	0,0384	Znrd1	Mus musculus zinc ribbon domain containing, 1 (Znrd1), mRNA [NM_023162]
A_55_P2021055	-0,30	-3,62	0,0422	Elp5	Mus musculus unknown protein mRNA, complete cds. [AF004107]
A_52_P18081	-0,30	-3,88	0,0333	Tmem206	Mus musculus transmembrane protein 206 (Tmem206), mRNA [NM_025864]

A_52_P505234	-0,30	-3,48	0,0483	Stt3a	Mus musculus STT3, subunit of the oligosaccharyltransferase complex, homolog A (S. cerevisiae) [Stt3a], mRNA [NM_008408]
A_51_P370350	-0,30	-3,84	0,0345	Galnt2	Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylglucosaminyltransferase 2 (Galnt2), mRNA [NM_139272]
A_52_P466887	-0,30	-3,77	0,0370	Hnrnpd	Mus musculus heterogeneous nuclear ribonucleoprotein D (Hnrnpd), transcript variant 1, mRNA [NM_001077265]
A_55_P2088103	-0,31	-3,50	0,0475	Ash2l	Mus musculus ash2 (absent, small, or homeotic)-like (Drosophila) (Ash2l), transcript variant 1, mRNA [NM_011791]
A_55_P2141429	-0,31	-3,97	0,0304	Park7	Mus musculus Parkinson disease (autosomal recessive, early onset) 7 (Park7), mRNA [NM_020569]
A_55_P2064568	-0,31	-3,53	0,0461	Anks1	Mus musculus ankyrin repeat and SAM domain containing 1 (Anks1), transcript variant 1, mRNA [NM_001286040]
A_55_P2103884	-0,31	-3,57	0,0444	Gm3258	Mus musculus predicted gene 3258 (Gm3258), mRNA [NM_011509]
A_51_P136729	-0,31	-3,63	0,0420	Idh3g	Mus musculus isocitrate dehydrogenase 3 (NAD+), gamma (Idh3g), mRNA [NM_008323]
A_55_P2068988	-0,31	-3,68	0,0401	LOC102641578	PREDICTED: Mus musculus carbonyl reductase [NADPH] 1-like (LOC102641578), partial mRNA [XM_006543344]
A_51_P289414	-0,31	-3,76	0,0372	Spg11	Mus musculus spastic paraplegia 11 (Spg11), mRNA [NM_145531]
A_51_P329490	-0,31	-3,81	0,0357	Slc25a40	Mus musculus solute carrier family 25, member 40 (Slc25a40), transcript variant 1, mRNA [NM_178766]
A_51_P426458	-0,31	-4,13	0,0261	Ube2d2a	Mus musculus ubiquitin-conjugating enzyme E2D 2A (Ube2d2a), mRNA [NM_019912]
A_55_P2014169	-0,31	-3,64	0,0416	Ppa2	Mus musculus pyrophosphatase (inorganic) 2 (Ppa2), mRNA [NM_146141]
A_55_P2058861	-0,31	-3,60	0,0433	Mvk	Mus musculus mevalonate kinase (Mvk), mRNA [NM_023556]
A_51_P296100	-0,31	-3,66	0,0407	Rhot2	Mus musculus ras homolog gene family, member T2 (Rhot2), mRNA [NM_145999]
A_65_P07062	-0,31	-3,65	0,0410	Serf2	Mus musculus small EDRK-rich factor 2 (Serf2), transcript variant 1, mRNA [NM_001290837]
A_55_P2058107	-0,31	-3,55	0,0451	Pigyl	Mus musculus phosphatidylinositol glycan anchor biosynthesis, class Y-like (Pigyl), mRNA [NM_001082532]
A_51_P297694	-0,31	-3,98	0,0301	Prpf6	Mus musculus PRP6 pre-mRNA splicing factor 6 homolog (yeast) (Prpf6), mRNA [NM_133701]
A_55_P2106063	-0,31	-3,65	0,0412	Ndufs2	NADH dehydrogenase (ubiquinone) Fe-S protein 2 [Source:MGI Symbol;Acc:MGI:2385112] [ENSIMUST0000136976]
A_55_P2139611	-0,31	-3,67	0,0405	Acbd4	Mus musculus acyl-Coenzyme A binding domain containing 4 (Acbd4), transcript variant 1, mRNA [NM_025988]
A_51_P478610	-0,31	-3,57	0,0442	Asb6	Mus musculus ankyrin repeat and SOCS box-containing 6 (Asb6), mRNA [NM_133346]
A_51_P484764	-0,31	-3,48	0,0486	Fam3a	Mus musculus family with sequence similarity 3, member A (Fam3a), mRNA [NM_025473]
A_55_P2032267	-0,31	-3,77	0,0370	Gm10767	Mus musculus predicted gene 10767 (Gm10767), mRNA [NM_001177750]
A_52_P657338	-0,31	-3,91	0,0322	Mrps17	Mus musculus mitochondrial ribosomal protein S17 (Mrps17), mRNA [NM_025450]
A_52_P59457	-0,31	-3,79	0,0363	Nprl2	Mus musculus nitrogen permease regulator-like 2 (Nprl2), mRNA [NM_018879]
A_51_P174645	-0,31	-3,62	0,0422	Asl	Mus musculus argininosuccinate lyase (Asl), mRNA [NM_133768]
A_51_P127756	-0,31	-4,14	0,0259	Ddx20	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 20 (Ddx20), mRNA [NM_017397]
A_51_P511707	-0,32	-3,96	0,0306	Ntpcr	Mus musculus nucleoside-triphosphatase, cancer-related (Ntpcr), mRNA [NM_025636]
A_55_P1990225	-0,32	-3,94	0,0314	Fnta	Mus musculus farnesyltransferase, CAAX box, alpha (Fnta), mRNA [NM_008033]
A_55_P2015178	-0,32	-4,12	0,0263	Nap111	Mus musculus nucleosome assembly protein 1-like 1 (Nap111), transcript variant 2, mRNA [NM_015781]
A_51_P234788	-0,32	-3,79	0,0363	Cxxc5	Mus musculus CXXC finger 5 (Cxxc5), mRNA [NM_133687]
A_51_P164207	-0,32	-3,92	0,0319	Mta2	Mus musculus metastasis-associated gene family, member 2 (Mta2), mRNA [NM_011842]
A_51_P475076	-0,32	-3,51	0,0473	Vbp1	Mus musculus von Hippel-Lindau binding protein 1 (Vbp1), mRNA [NM_011692]
A_55_P2102295	-0,32	-3,66	0,0406	Tmem184c	Mus musculus transmembrane protein 184C (Tmem184c), mRNA [NM_145599]
A_55_P2133266	-0,32	-3,53	0,0460	Cxx1c	Mus musculus CAAX box 1C (Cxx1c), mRNA [NM_028375]
A_51_P122085	-0,32	-4,06	0,0278	Usp20	Mus musculus ubiquitin specific peptidase 20 (Usp20), mRNA [NM_028846]
A_55_P2095688	-0,32	-3,62	0,0422	Sh3bp5l	Mus musculus SH3 binding domain protein 5 like (Sh3bp5l), transcript variant 1, mRNA [NM_001161338]
A_51_P190886	-0,32	-3,45	0,0499	Ankrd13a	Mus musculus ankyrin repeat domain 13a (Ankrd13a), mRNA [NM_026718]
A_55_P2167000	-0,32	-3,82	0,0353	Atp5sl	Mus musculus ATP5S-like (Atp5sl), transcript variant 2, mRNA [NM_025504]
A_55_P2075359	-0,32	-4,01	0,0293	Gm8994	Mus musculus predicted gene 8994 (Gm8994), mRNA [NM_001142734]
A_51_P462692	-0,32	-3,75	0,0376	Ptbp1	Mus musculus polypyrimidine tract binding protein 1 (Ptbp1), transcript variant 1, mRNA [NM_001077363]
A_55_P2121961	-0,32	-4,00	0,0295	Psmc3	Mus musculus proteasome (prosome, macropain) 26S subunit, ATPase 3 (Psmc3), mRNA [NM_008948]
A_52_P555680	-0,32	-3,73	0,0382	Trappc12	Mus musculus trafficking protein particle complex 12 (Trappc12), transcript variant 1, mRNA [NM_178811]
A_51_P240864	-0,32	-3,74	0,0377	Sppl3	Mus musculus signal peptide peptidase 3 (Sppl3), mRNA [NM_029012]
A_55_P1999324	-0,32	-3,49	0,0479	Nudt6	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 6 (Nudt6), transcript variant 1, mRNA [NM_001291044]
A_51_P181722	-0,32	-3,66	0,0407	Rbks	Mus musculus ribokinase (Rbks), mRNA [NM_153196]



A_51_P153004	-0,32	-3,58	0,0438	Phax	Mus musculus phosphorylated adaptor for RNA export (Phax), transcript variant 1, mRNA [NM_019996]
A_51_P365912	-0,32	-3,79	0,0363	Narfl	Mus musculus nuclear prelamin A recognition factor-like (Narfl), mRNA [NM_026238]
A_55_P1979551	-0,32	-3,55	0,0454	Pitrm1	Mus musculus pitrilysin metallopeptidase 1 (Pitrm1), mRNA [NM_145131]
A_51_P158772	-0,32	-3,72	0,0387	Elof1	Mus musculus elongation factor 1 homolog (ELF1, S. cerevisiae) (Elof1), mRNA [NM_170777]
A_55_P1959600	-0,32	-4,08	0,0274	Tmem222	Mus musculus transmembrane protein 222 (Tmem222), transcript variant 1, mRNA [NM_025667]
A_55_P2150058	-0,32	-3,52	0,0467	Zfp593	Mus musculus zinc finger protein 593 (Zfp593), mRNA [NM_024215]
A_55_P2065501	-0,32	-3,48	0,0485	Rnf7	Mus musculus ring finger protein 7 (Rnf7), mRNA [NM_011279]
A_51_P445683	-0,32	-3,84	0,0346	4931406C07 Rik	Mus musculus RIKEN cDNA 4931406C07 gene (4931406C07Rik), transcript variant 3, mRNA [NM_133732]
A_52_P471502	-0,32	-3,48	0,0484	Dcaf13	Mus musculus DDB1 and CUL4 associated factor 13 (Dcaf13), mRNA [NM_198606]
A_51_P273755	-0,32	-3,87	0,0336	Exoc7	Mus musculus exocyst complex component 7 (Exoc7), transcript variant 1, mRNA [NM_016857]
A_51_P192344	-0,32	-3,88	0,0332	Ash2l	Mus musculus ash2 (absent, small, or homeotic)-like (Drosophila) (Ash2l), transcript variant 1, mRNA [NM_011791]
A_52_P269016	-0,32	-4,17	0,0253	Nek9	Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 9 (Nek9), mRNA [NM_145138]
A_52_P253230	-0,32	-3,79	0,0364	Ankrd46	Mus musculus ankyrin repeat domain 46 (Ankrd46), mRNA [NM_175134]
A_51_P114854	-0,32	-4,02	0,0289	Clns1a	Mus musculus chloride channel, nucleotide-sensitive, 1A (Clns1a), mRNA [NM_023671]
A_51_P332136	-0,32	-3,53	0,0464	Zmat5	Mus musculus zinc finger, matrin type 5 (Zmat5), mRNA [NM_026015]
A_51_P311096	-0,33	-3,80	0,0359	Malsu1	Mus musculus mitochondrial assembly of ribosomal large subunit 1 (Malsu1), mRNA [NM_029353]
A_51_P461031	-0,33	-3,59	0,0435	Ostm1	Mus musculus osteopetrosis associated transmembrane protein 1 (Ostm1), mRNA [NM_172416]
A_55_P1979305	-0,33	-3,68	0,0401	Gle1	Mus musculus GLE1 RNA export mediator (yeast) (Gle1), mRNA [NM_028923]
A_51_P349662	-0,33	-3,93	0,0316	Taf5l	Mus musculus TAF5-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor (Taf5l), mRNA [NM_133966]
A_52_P327615	-0,33	-3,66	0,0410	Rab18	Mus musculus RAB18, member RAS oncogene family (Rab18), transcript variant 2, mRNA [NM_181070]
A_51_P505322	-0,33	-3,74	0,0380	Mpnd	Mus musculus MPN domain containing (Mpnd), mRNA [NM_026530]
A_55_P1969987	-0,33	-3,47	0,0489	Fam204a	Mus musculus family with sequence similarity 204, member A (Fam204a), mRNA [NM_029648]
A_55_P2152872	-0,33	-4,24	0,0239	Fgfr1l	Mus musculus fibroblast growth factor receptor-like 1 (Fgfr1l), transcript variant 1, mRNA [NM_054071]
A_55_P1969072	-0,33	-3,46	0,0492	Cbx3	Mus musculus chromobox 3 (Cbx3), mRNA [NM_007624]
A_55_P1953980	-0,33	-4,02	0,0291	Sdhb	Mus musculus succinate dehydrogenase complex, subunit B, iron sulfur (lp) (Sdhb), mRNA [NM_023374]
A_55_P1953796	-0,33	-3,53	0,0460	Fam98c	Mus musculus family with sequence similarity 98, member C (Fam98c), mRNA [NM_001146023]
A_51_P349691	-0,33	-3,47	0,0491	Ano10	Mus musculus anoctamin 10 (Ano10), transcript variant 1, mRNA [NM_133979]
A_51_P280492	-0,33	-3,68	0,0400	Ndufa9	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 9 (Ndufa9), mRNA [NM_025358]
A_51_P329370	-0,33	-3,50	0,0476	Snrnp25	Mus musculus small nuclear ribonucleoprotein 25 (U11/U12) (Snrnp25), mRNA [NM_030093]
A_55_P2104597	-0,33	-4,38	0,0212	Kctd9	Mus musculus potassium channel tetramerisation domain containing 9 (Kctd9), transcript variant 3, mRNA [NM_001285933]
A_51_P147373	-0,33	-4,26	0,0235	Dpp3	Mus musculus dipeptidylpeptidase 3 (Dpp3), mRNA [NM_133803]
A_66_P106585	-0,33	-4,21	0,0244	Sae1	Mus musculus SUMO1 activating enzyme subunit 1 (Sae1), transcript variant 1, mRNA [NM_019748]
A_55_P2158483	-0,33	-3,55	0,0454	Nkiras2	Mus musculus NFKB inhibitor interacting Ras-like protein 2 (Nkiras2), mRNA [NM_028024]
A_55_P2052613	-0,33	-3,78	0,0365	Rpl13a	Mus musculus ribosomal protein L13A (Rpl13a), mRNA [NM_009438]
A_55_P2088385	-0,33	-3,90	0,0324	Tnnt1	Mus musculus troponin T1, skeletal, slow (Tnnt1), transcript variant 1, mRNA [NM_001277903]
A_55_P2095933	-0,33	-3,70	0,0390	Zranb1	Mus musculus zinc finger, RAN-binding domain containing 1 (Zranb1), mRNA [NM_207302]
A_51_P212183	-0,33	-3,70	0,0392	Tmem261	Mus musculus transmembrane protein 261 (Tmem261), mRNA [NM_025849]
A_51_P110841	-0,33	-4,01	0,0293	Mrps35	Mus musculus mitochondrial ribosomal protein S35 (Mrps35), mRNA [NM_145573]
A_51_P395842	-0,33	-3,77	0,0368	Timm21	Mus musculus tranlocase of inner mitochondrial membrane 21 (Timm21), mRNA [NM_025969]
A_55_P2073084	-0,33	-3,62	0,0422	Gtf3c2	Mus musculus general transcription factor IIIC, polypeptide 2, beta (Gtf3c2), mRNA [NM_027901]
A_55_P2017714	-0,33	-3,51	0,0471	Kat5	Mus musculus K(lysine) acetyltransferase 5 (Kat5), transcript variant 1, mRNA [NM_178637]
A_55_P1962951	-0,33	-3,65	0,0410	Stx5a	Mus musculus syntaxin 5A (Stx5a), transcript variant 1, mRNA [NM_019829]
A_51_P229816	-0,33	-3,66	0,0407	Eif2b2	Mus musculus eukaryotic translation initiation factor 2B, subunit 2 beta (Eif2b2), mRNA [NM_145445]
A_51_P319732	-0,33	-3,50	0,0476	Mrps31	Mus musculus mitochondrial ribosomal protein S31 (Mrps31), mRNA [NM_020560]
A_51_P144581	-0,33	-4,41	0,0206	Pgrmc1	Mus musculus progesterone receptor membrane component 1 (Pgrmc1), mRNA [NM_016783]
A_51_P136460	-0,33	-3,68	0,0400	Zmat2	Mus musculus zinc finger, matrin type 2 (Zmat2), mRNA [NM_025594]

A_51_P394728	-0,33	-3,58	0,0439	Kti12	Mus musculus Kti12 homolog, chromatin associated (S. cerevisiae) (Kti12), mRNA [NM_029571]
A_55_P2011551	-0,33	-3,82	0,0352	Anapc5	Mus musculus CRL-1722 L5178Y-R cDNA, RIKEN full-length enriched library, clone:1730060B02 product:anaphase-promoting complex subunit 5, full insert sequence. [AK168135]
A_51_P100289	-0,33	-3,86	0,0338	Srf	Mus musculus serum response factor (Srf), mRNA [NM_020493]
A_51_P115817	-0,33	-4,18	0,0251	Ralgps2	Mus musculus Ral GEF with PH domain and SH3 binding motif 2 (Ralgps2), transcript variant 2, mRNA [NM_023884]
A_65_P06453	-0,33	-3,50	0,0476	Nup35	Mus musculus nucleoporin 35 (Nup35), transcript variant 2, mRNA [NM_001190179]
A_55_P1964225	-0,33	-4,40	0,0208	Elac2	Mus musculus elac homolog 2 (E. coli) (Elac2), mRNA [NM_023479]
A_55_P2059110	-0,33	-3,57	0,0445	Skap1	Mus musculus src family associated phosphoprotein 1 (Skap1), transcript variant 1, mRNA [NM_001033186]
A_55_P2073579	-0,33	-3,45	0,0496	Chchd5	Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 5 (Chchd5), mRNA [NM_025395]
A_51_P160372	-0,33	-4,17	0,0253	Wbp1	Mus musculus WW domain binding protein 1 (Wbp1), transcript variant 1, mRNA [NM_016757]
A_52_P624362	-0,33	-3,68	0,0399	Aamp	Mus musculus angio-associated migratory protein (Aamp), transcript variant 2, mRNA [NM_146110]
A_55_P1980262	-0,33	-3,56	0,0447	Cxx1b	Mus musculus CAAX box 1B (Cxx1b), mRNA [NM_001018063]
A_55_P2171715	-0,33	-4,17	0,0253	Mrps33	Mus musculus mitochondrial ribosomal protein S33 (Mrps33), transcript variant 1, mRNA [NM_010270]
A_55_P2032034	-0,33	-3,89	0,0327	Tbp	Mus musculus TATA box binding protein (Tbp), mRNA [NM_013684]
A_55_P1977548	-0,33	-3,70	0,0392	Mapk1	Mus musculus mitogen-activated protein kinase 1 (Mapk1), transcript variant 1, mRNA [NM_011949]
A_51_P304683	-0,33	-4,10	0,0268	Clpx	Mus musculus caseinolytic peptidase X (E.coli) (Clpx), transcript variant 1, mRNA [NM_011802]
A_55_P2044109	-0,33	-3,92	0,0319	Rpl28	Mus musculus ribosomal protein L28, mRNA (cDNA clone MGC:36185 IMAGE:4981342), complete cds. [BC024395]
A_55_P2093291	-0,34	-3,55	0,0451	Coil	Mus musculus coilin (Coil), mRNA [NM_016706]
A_55_P2003133	-0,34	-3,59	0,0435	Ngrn	Mus musculus neugrin, neurite outgrowth associated (Ngrn), transcript variant 2, mRNA [NM_031375]
A_55_P1962483	-0,34	-3,83	0,0348	Gm4943	PREDICTED: Mus musculus predicted pseudogene 4943 (Gm4943), transcript variant X3, mRNA [XM_006543297]
A_52_P448006	-0,34	-3,63	0,0420	Nit2	Mus musculus nitrilase family, member 2 (Nit2), mRNA [NM_023175]
A_52_P5652	-0,34	-3,72	0,0386	Sae1	Mus musculus SUMO1 activating enzyme subunit 1 (Sae1), transcript variant 1, mRNA [NM_019748]
A_51_P513254	-0,34	-3,65	0,0413	Rac1	Mus musculus RAS-related G3 botulinum substrate 1 (Rac1), mRNA [NM_009007]
A_51_P518488	-0,34	-3,97	0,0302	Atpif1	Mus musculus ATPase inhibitory factor 1 (Atpif1), mRNA [NM_007512]
A_51_P421984	-0,34	-4,26	0,0235	Timm22	Mus musculus translocase of inner mitochondrial membrane 22 (Timm22), transcript variant 1, mRNA [NM_019818]
A_66_P109395	-0,34	-3,59	0,0434	Rpia	Mus musculus ribose 5-phosphate isomerase A (Rpia), mRNA [NM_009075]
A_51_P179241	-0,34	-4,07	0,0278	Tssc4	Mus musculus tumor-suppressing subchromosomal transferable fragment 4 (Tssc4), transcript variant 1, mRNA [NM_020285]
A_55_P2014269	-0,34	-3,63	0,0421	Zfp771	Mus musculus zinc finger protein 771 (Zfp771), mRNA [NM_177362]
A_55_P2109337	-0,34	-3,74	0,0377	Gba2	Mus musculus glucosidase beta 2 (Gba2), mRNA [NM_172692]
A_51_P202801	-0,34	-3,82	0,0352	Abcb9	Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 9 (Abcb9), mRNA [NM_019875]
A_55_P2005680	-0,34	-3,57	0,0442	Ipo11	Mus musculus importin 11 (Ipo11), mRNA [NM_029665]
A_51_P109421	-0,34	-3,74	0,0380	Eif2d	Mus musculus eukaryotic translation initiation factor 2D (Eif2d), transcript variant 2, mRNA [NM_010709]
A_55_P2186352	-0,34	-4,23	0,0240	Ttc12	Mus musculus tetratricopeptide repeat domain 12 (Ttc12), mRNA [NM_172770]
A_55_P2110601	-0,34	-3,66	0,0407	Slc35a2	Mus musculus solute carrier family 35 (UDP-galactose transporter), member A2 (Slc35a2), transcript variant 2, mRNA [NM_001083937]
A_55_P2165046	-0,34	-3,81	0,0356	Klhl22	Mus musculus kelch-like 22 (Klhl22), mRNA [NM_145479]
A_51_P480881	-0,34	-4,03	0,0287	Thap11	Mus musculus THAP domain containing 11 (Thap11), mRNA [NM_021513]
A_51_P165683	-0,34	-3,54	0,0457	Hirip3	Mus musculus HIRA interacting protein 3 (Hirip3), mRNA [NM_172746]
A_51_P336622	-0,34	-4,36	0,0216	Dexi	Mus musculus dexamethasone-induced transcript (Dexi), mRNA [NM_021428]
A_55_P2433218	-0,34	-4,18	0,0251	Bloc1s6	Mus musculus biogenesis of lysosomal organelles complex-1, subunit 6, pallidin (Bloc1s6), mRNA [NM_019788]
A_51_P158210	-0,34	-3,49	0,0479	Mcm2	Mus musculus minichromosome maintenance deficient 2 mitotin (S. cerevisiae) (Mcm2), mRNA [NM_008564]
A_55_P1966883	-0,34	-4,02	0,0290	Rnaseh2a	Mus musculus ribonuclease H2, large subunit (Rnaseh2a), mRNA [NM_027187]
A_51_P137007	-0,34	-3,94	0,0314	Zw10	Mus musculus zw10 kinetochore protein (Zw10), mRNA [NM_012039]
A_55_P2064876	-0,34	-4,07	0,0277	Fam89b	Mus musculus family with sequence similarity 89, member B (Fam89b), transcript variant 1, mRNA [NM_181452]
A_55_P2157360	-0,34	-3,84	0,0346	Tagap1	Mus musculus T cell activation GTPase activating protein 1 (Tagap1), mRNA [NM_147155]
A_55_P2117202	-0,34	-4,02	0,0292	Mtx1	Mus musculus metaxin 1 (Mtx1), transcript variant 1, mRNA [NM_013604]
A_55_P2035454	-0,34	-3,91	0,0323	Oaz1	Mus musculus ornithine decarboxylase antizyme 1 (Oaz1), mRNA [NM_008753]
A_55_P2008609	-0,34	-4,08	0,0273	Rxrb	Mus musculus retinoid X receptor beta (Rxrb), transcript variant 1, mRNA [NM_001205214]



A_55_P1999439	-0,34	-3,57	0,0441	Ino80e	INO80 complex subunit E [Source:MGI Symbol;Acc:MGI:2141881] [ENSMUST00000050833]
A_52_P623751	-0,34	-3,63	0,0418	Fem1b	Mus musculus feminization 1 homolog b (C. elegans) (Fem1b), mRNA [NM_010193]
A_52_P2947	-0,34	-3,53	0,0461	Ndufaf2	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 2 (Ndufaf2), mRNA [NM_001127346]
A_55_P2118362	-0,34	-3,72	0,0387	Tmem121	Mus musculus transmembrane protein 121 (Tmem121), mRNA [NM_153776]
A_55_P2084496	-0,34	-3,57	0,0441	Ssbp3	Mus musculus single-stranded DNA binding protein 3 (Ssbp3), transcript variant 1, mRNA [NM_023672]
A_55_P2111429	-0,35	-4,48	0,0196	Btf3l4	Mus musculus basic transcription factor 3-like 4 (Btf3l4), mRNA [NM_027453]
A_55_P2170414	-0,35	-4,07	0,0276	Zfp180	Mus musculus zinc finger protein 180 (Zfp180), transcript variant 2, mRNA [NM_001289634]
A_52_P293556	-0,35	-3,75	0,0376	Wdr41	Mus musculus WD repeat domain 41 (Wdr41), mRNA [NM_172590]
A_51_P161874	-0,35	-3,94	0,0313	Med30	Mus musculus mediator complex subunit 30 (Med30), mRNA [NM_027212]
A_52_P226127	-0,35	-3,65	0,0412	Dido1	Mus musculus death inducer-obliterator 1 (Dido1), transcript variant 1, mRNA [NM_011805]
A_51_P440443	-0,35	-4,40	0,0208	Exosc5	Mus musculus exosome component 5 (Exosc5), transcript variant 1, mRNA [NM_138586]
A_55_P2065369	-0,35	-4,42	0,0205	H3f3a	Mus musculus H3 histone, family 3A (H3f3a), mRNA [NM_008210]
A_52_P159885	-0,35	-3,45	0,0500	Ddx49	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 49 (Ddx49), mRNA [NM_001024922]
A_52_P656565	-0,35	-4,11	0,0268	Pex6	Mus musculus peroxisomal biogenesis factor 6 (Pex6), mRNA [NM_145488]
A_55_P2079520	-0,35	-4,03	0,0287	Mpp1	Mus musculus membrane protein, palmitoylated (Mpp1), mRNA [NM_008621]
A_55_P2033650	-0,35	-4,09	0,0271	Cpt2	Mus musculus carnitine palmitoyltransferase 2 (Cpt2), mRNA [NM_009949]
A_51_P177583	-0,35	-4,08	0,0275	Puf60	Mus musculus poly-U binding splicing factor 60 (Puf60), transcript variant 1, mRNA [NM_028364]
A_55_P2140383	-0,35	-3,83	0,0348	Mis18a	Mus musculus MIS18 kinetochore protein homolog A (S. pombe) (Mis18a), mRNA [NM_025642]
A_55_P2000958	-0,35	-4,17	0,0253	Sdr39u1	Mus musculus short chain dehydrogenase/reductase family 39U, member 1 (Sdr39u1), mRNA [NM_001082975]
A_55_P2050799	-0,35	-3,46	0,0491	Nup35	Mus musculus nucleoporin 35 (Nup35), transcript variant 2, mRNA [NM_001190179]
A_52_P284348	-0,35	-3,63	0,0419	Smim20	Mus musculus small integral membrane protein 20 (Smim20), mRNA [NM_001145433]
A_55_P2000623	-0,35	-3,47	0,0487	Stag1	Mus musculus stromal antigen 1 (Stag1), mRNA [NM_009282]
A_51_P447866	-0,35	-3,59	0,0434	Sash3	Mus musculus SAM and SH3 domain containing 3 (Sash3), mRNA [NM_028773]
A_51_P205740	-0,35	-4,00	0,0295	Ube3b	Mus musculus ubiquitin protein ligase E3B (Ube3b), mRNA [NM_054093]
A_55_P2171047	-0,35	-4,18	0,0251	Oaz1	Mus musculus cDNA clone IMAGE:3594392, containing frame-shift errors. [BC002132]
A_51_P342082	-0,35	-3,80	0,0360	Cnpy2	Mus musculus canopy 2 homolog (zebrafish) (Cnpy2), mRNA [NM_019953]
A_55_P1959338	-0,35	-4,28	0,0232	Al846148	Mus musculus expressed sequence Al846148 (Al846148), transcript variant 1, mRNA [NM_001033139]
A_55_P1960074	-0,35	-3,80	0,0360	Pafah1b3	Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, subunit 3 (Pafah1b3), mRNA [NM_008776]
A_51_P104933	-0,35	-3,60	0,0428	Trub2	Mus musculus TruB pseudouridine (psi) synthase homolog 2 (E. coli) (Trub2), transcript variant 1, mRNA [NM_145520]
A_51_P259861	-0,35	-4,38	0,0211	Mettl9	Mus musculus methyltransferase like 9 (Mettl9), mRNA [NM_021554]
A_51_P402435	-0,35	-4,30	0,0229	Trap1	Mus musculus TNF receptor-associated protein 1 (Trap1), mRNA [NM_026508]
A_55_P2132502	-0,35	-4,26	0,0235	Pkn1	Mus musculus protein kinase N1 (Pkn1), transcript variant 2, mRNA [NM_177262]
A_51_P308814	-0,35	-4,54	0,0187	Toe1	Mus musculus target of EGR1, member 1 (nuclear) (Toe1), mRNA [NM_026654]
A_51_P492482	-0,35	-3,67	0,0403	Cstf2t	Mus musculus cleavage stimulation factor, 3' pre-RNA subunit 2, tau (Cstf2t), mRNA [NM_031249]
A_55_P1991618	-0,35	-4,56	0,0183	Ppp1r16a	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 16A (Ppp1r16a), mRNA [NM_033371]
A_55_P2077826	-0,35	-4,13	0,0261	Ppp1cc	Mus musculus protein phosphatase 1, catalytic subunit, gamma isoform (Ppp1cc), mRNA [NM_013636]
A_51_P184321	-0,35	-3,81	0,0355	Aimp1	Mus musculus aminoacyl tRNA synthetase complex-interacting multifunctional protein 1 (Aimp1), mRNA [NM_007926]
A_55_P2045203	-0,35	-3,51	0,0472	Chp1	Mus musculus calcineurin-like EF hand protein 1 (Chp1), mRNA [NM_019769]
A_55_P2186439	-0,36	-4,72	0,0161	Chtop	Mus musculus chromatin target of PRMT1 (Chtop), mRNA [NM_023215]
A_52_P103550	-0,36	-4,18	0,0251	Tfdp1	Mus musculus transcription factor Dp 1 (Tfdp1), transcript variant 1, mRNA [NM_009361]
A_51_P130660	-0,36	-4,48	0,0196	Mrps30	Mus musculus mitochondrial ribosomal protein S30 (Mrps30), mRNA [NM_021556]
A_55_P2454004	-0,36	-4,24	0,0239	Smim8	Mus musculus small integral membrane protein 8 (Smim8), mRNA [NM_025471]
A_55_P2055477	-0,36	-3,77	0,0368	Scaf11	Mus musculus SR-related CTD-associated factor 11 (Scaf11), mRNA [NM_028148]
A_51_P260639	-0,36	-4,25	0,0237	Elp3	Mus musculus elongator acetyltransferase complex subunit 3 (Elp3), transcript variant 2, mRNA [NM_028811]
A_55_P2001228	-0,36	-4,45	0,0199	Dctn6	Mus musculus dynactin 6 (Dctn6), mRNA [NM_011722]
A_51_P163106	-0,36	-3,72	0,0387	Bdh1	Mus musculus 3-hydroxybutyrate dehydrogenase, type 1 (Bdh1), transcript variant 1, mRNA [NM_175177]
A_66_P136099	-0,36	-4,24	0,0238	Coasy	Mus musculus Coenzyme A synthase (Coasy), mRNA [NM_027896]

A_65_P19286	-0,36	-3,51	0,0473	Alg10b	Mus musculus asparagine-linked glycosylation 10B (alpha-1,2-glucosyltransferase) (Alg10b), mRNA [NM_001033441]
A_52_P595642	-0,36	-4,31	0,0225	Smim7	Mus musculus small integral membrane protein 7 (Smim7), mRNA [NM_172396]
A_52_P59681	-0,36	-3,50	0,0475	Hrsp12	Mus musculus heat-responsive protein 12 (Hrsp12), mRNA [NM_008287]
A_51_P436727	-0,36	-3,76	0,0372	Arrb1	Mus musculus arrestin, beta 1 (Arrb1), transcript variant a, mRNA [NM_177231]
A_55_P2140546	-0,36	-4,31	0,0225	Slc25a51	Mus musculus solute carrier family 25, member 51 (Slc25a51), mRNA [NM_001009949]
A_55_P2016478	-0,36	-4,08	0,0274	Ddx39b	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B (Ddx39b), transcript variant 2, mRNA [NM_001252457]
A_55_P1996698	-0,36	-3,81	0,0354	Gm16381	Mus musculus predicted gene 16381 (Gm16381), mRNA [NM_001166062]
A_52_P316644	-0,36	-3,90	0,0325	Bet1	Mus musculus blocked early in transport 1 homolog (S. cerevisiae) (Bet1), mRNA [NM_009748]
A_55_P1981040	-0,36	-3,58	0,0439	Ddx6	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 6 (Ddx6), transcript variant 1, mRNA [NM_001110826]
A_55_P1976869	-0,36	-4,12	0,0264	Hsd12	Mus musculus hydroxysteroid dehydrogenase like 2 (Hsd12), mRNA [NM_024255]
A_51_P123795	-0,36	-4,44	0,0202	Zfp637	Mus musculus zinc finger protein 637 (Zfp637), mRNA [NM_177684]
A_55_P2067513	-0,36	-3,76	0,0374	Slc10a3	Mus musculus solute carrier family 10 (sodium/bile acid cotransporter family), member 3 (Slc10a3), transcript variant 1, mRNA [NM_145406]
A_55_P2028655	-0,36	-4,17	0,0253	Slc31a1	Mus musculus solute carrier family 31, member 1 (Slc31a1), mRNA [NM_175090]
A_51_P233788	-0,36	-3,68	0,0399	Dmap1	Mus musculus DNA methyltransferase 1-associated protein 1 (Dmap1), mRNA [NM_023178]
A_55_P2027870	-0,36	-3,90	0,0325	Abhd17a	Mus musculus abhydrolase domain containing 17A (Abhd17a), mRNA [NM_145421]
A_55_P2008681	-0,36	-3,62	0,0422	Ktn1	Mus musculus kinectin 1 (Ktn1), mRNA [NM_008477]
A_51_P225083	-0,36	-3,82	0,0350	Snx17	Mus musculus sorting nexin 17 (Snx17), mRNA [NM_153680]
A_51_P474422	-0,36	-3,56	0,0446	Ift27	Mus musculus intraflagellar transport 27 (Ift27), mRNA [NM_025931]
A_51_P329283	-0,36	-3,68	0,0401	Senp5	Mus musculus SUMO/sentrin specific peptidase 5 (Senp5), mRNA [NM_177103]
A_51_P249537	-0,36	-3,93	0,0316	Wdr24	Mus musculus WD repeat domain 24 (Wdr24), mRNA [NM_173741]
A_55_P2026291	-0,36	-4,91	0,0141	Smarce1	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1 (Smarce1), mRNA [NM_020618]
A_51_P328669	-0,36	-4,12	0,0263	Ncbp1	Mus musculus nuclear cap binding protein subunit 1 (Ncbp1), mRNA [NM_001033201]
A_51_P330090	-0,36	-3,90	0,0325	Trappc9	Mus musculus trafficking protein particle complex 9 (Trappc9), transcript variant 2, mRNA [NM_180662]
A_66_P110490	-0,36	-3,54	0,0456	Polr3h	Mus musculus polymerase (RNA) III (DNA directed) polypeptide H (Polr3h), mRNA [NM_030229]
A_55_P2026445	-0,36	-4,29	0,0229	Tfam	Mus musculus transcription factor A, mitochondrial (Tfam), mRNA [NM_009360]
A_51_P121412	-0,36	-4,11	0,0266	Slc35a4	Mus musculus solute carrier family 35, member A4 (Slc35a4), transcript variant 1, mRNA [NM_026404]
A_51_P461884	-0,36	-3,46	0,0491	Abl2	Mus musculus v-abl Abelson murine leukemia viral oncogene 2 (arg, Abelson-related gene) (Abl2), transcript variant 2, mRNA [NM_009595]
A_55_P2062787	-0,36	-3,73	0,0380	Mfap3	Mus musculus microfibillar-associated protein 3 (Mfap3), transcript variant 1, mRNA [NM_145426]
A_51_P378558	-0,36	-3,94	0,0314	Rpap2	Mus musculus RNA polymerase II associated protein 2 (Rpap2), transcript variant 1, mRNA [NM_144911]
A_55_P2058359	-0,36	-3,79	0,0363	H2afy	Mus musculus H2A histone family, member Y (H2afy), transcript variant 4, mRNA [NM_001159515]
A_51_P174434	-0,36	-3,65	0,0410	Cenpj	Mus musculus centromere protein J (Cenpj), mRNA [NM_001014996]
A_51_P345046	-0,36	-3,62	0,0423	Metap2	Mus musculus methionine aminopeptidase 2 (Metap2), mRNA [NM_019648]
A_66_P103477	-0,36	-4,42	0,0205	AU019823	Mus musculus expressed sequence AU019823 (AU019823), transcript variant 1, mRNA [NM_001134902]
A_55_P2173035	-0,36	-4,23	0,0240	Dnajc8	Mus musculus Dnaj (Hsp40) homolog, subfamily C, member 8 (Dnajc8), mRNA [NM_172400]
A_55_P1971709	-0,36	-4,36	0,0215	Dnajc8	Mus musculus Dnaj (Hsp40) homolog, subfamily C, member 8 (Dnajc8), mRNA [NM_172400]
A_51_P349192	-0,36	-4,45	0,0199	2210013021 Rik	Mus musculus RIKEN cDNA 2210013021 gene (2210013021Rik), mRNA [NM_027327]
A_51_P453246	-0,36	-4,75	0,0157	A1462493	Mus musculus expressed sequence A1462493 (A1462493), mRNA [NM_001160356]
A_51_P164495	-0,37	-4,30	0,0229	Dda1	Mus musculus DET1 and DDB1 associated 1 (Dda1), mRNA [NM_025600]
A_55_P1985040	-0,37	-3,52	0,0469	Gpbp111	Mus musculus GC-rich promoter binding protein 1-like 1 (Gpbp111), mRNA [NM_029868]
A_55_P2084408	-0,37	-3,58	0,0437	Uba1	Mus musculus ubiquitin-like modifier activating enzyme 1 (Uba1), transcript variant 3, mRNA [NM_001276316]
A_52_P543824	-0,37	-3,97	0,0302	Srsf6	Mus musculus serine/arginine-rich splicing factor 6 (Srsf6), mRNA [NM_026499]
A_55_P2162530	-0,37	-3,94	0,0313	Pex6	Mus musculus peroxisomal biogenesis factor 6 (Pex6), mRNA [NM_145488]
A_52_P644354	-0,37	-4,23	0,0240	Zfp106	Mus musculus zinc finger protein 106 (Zfp106), mRNA [NM_011743]
A_55_P1985077	-0,37	-3,95	0,0310	Fam195b	Mus musculus family with sequence similarity 195, member B (Fam195b), mRNA [NM_001033231]
A_52_P358076	-0,37	-4,00	0,0296	Ppp2ca	Mus musculus protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform (Ppp2ca), mRNA [NM_019411]
A_55_P1978176	-0,37	-3,73	0,0382	Abhd17c	Mus musculus abhydrolase domain containing 17C (Abhd17c), mRNA [NM_133722]

A_55_P2004571	-0,37	-3,87	0,0335	Pitpnm2	Mus musculus phosphatidylinositol transfer protein, membrane-associated 2 (Pitpnm2), transcript variant 1, mRNA [NM_011256]
A_55_P2111416	-0,37	-4,19	0,0248	Rcc2	Mus musculus regulator of chromosome condensation 2 (Rcc2), mRNA [NM_173867]
A_51_P299287	-0,37	-4,12	0,0265	Impa2	Mus musculus inositol (myo)-1(or 4)-monophosphatase 2 (Impa2), mRNA [NM_053261]
A_55_P2096737	-0,37	-3,59	0,0435	Elmod3	Mus musculus ELMO/CED-12 domain containing 3 (Elmod3), transcript variant 1, mRNA [NM_144917]
A_55_P2008106	-0,37	-4,81	0,0151	Otud6b	Mus musculus OTU domain containing 6B (Otud6b), mRNA [NM_152812]
A_55_P1957028	-0,37	-3,68	0,0400	Kat7	Mus musculus K(lysine) acetyltransferase 7 (Kat7), transcript variant 1, mRNA [NM_001195003]
A_66_P121196	-0,37	-4,51	0,0191	Katnb1	Mus musculus katanin p80 (WD40-containing) subunit B 1 (Katnb1), mRNA [NM_028805]
A_55_P2167050	-0,37	-3,84	0,0346	Paip2	Mus musculus polyadenylate-binding protein-interacting protein 2 (Paip2), mRNA [NM_026420]
A_51_P304527	-0,37	-4,48	0,0196	Cluap1	Mus musculus clusterin associated protein 1 (Cluap1), mRNA [NM_029738]
A_55_P2049448	-0,37	-4,38	0,0211	Phtf1	Mus musculus putative homeodomain transcription factor 1 (Phtf1), transcript variant 1, mRNA [NM_013629]
A_51_P486512	-0,37	-3,71	0,0390	Letmd1	Mus musculus LETM1 domain containing 1 (Letmd1), mRNA [NM_134093]
A_51_P284793	-0,37	-3,84	0,0343	Ints12	Mus musculus integrator complex subunit 12 (Ints12), mRNA [NM_027927]
A_65_P15689	-0,37	-4,23	0,0239	Mut	Mus musculus methylmalonyl-Coenzyme A mutase (Mut), mRNA [NM_008650]
A_55_P2164909	-0,37	-5,10	0,0122	D10Jhu81e	Mus musculus DNA segment, Chr 10, Johns Hopkins University B1 expressed (D10Jhu81e), mRNA [NM_138601]
A_55_P2063041	-0,37	-4,23	0,0239	Slmo2	Mus musculus slowmo homolog 2 (Drosophila) (Slmo2), mRNA [NM_025531]
A_51_P504588	-0,37	-3,56	0,0449	Tm2d2	Mus musculus TM2 domain containing 2 (Tm2d2), mRNA [NM_027194]
A_51_P441974	-0,37	-4,37	0,0212	Pip5k1a	Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type 1 alpha (Pip5k1a), mRNA [NM_008847]
A_55_P2336943	-0,37	-4,04	0,0284	Dph6	Mus musculus diphthamine biosynthesis 6 (Dph6), mRNA [NM_025675]
A_52_P48777	-0,37	-4,52	0,0190	Copg2	Mus musculus coatomer protein complex, subunit gamma 2 (Copg2), mRNA [NM_017478]
A_55_P1991109	-0,37	-4,40	0,0208	D10Jhu81e	Mus musculus DNA segment, Chr 10, Johns Hopkins University B1 expressed (D10Jhu81e), mRNA [NM_138601]
A_52_P682990	-0,37	-4,04	0,0284	Timm50	Mus musculus translocase of inner mitochondrial membrane 50 (Timm50), mRNA [NM_025616]
A_51_P341789	-0,37	-4,52	0,0190	Sugp1	Mus musculus SURP and G patch domain containing 1 (Sugp1), mRNA [NM_027481]
A_51_P512783	-0,37	-3,68	0,0401	Rmdn1	Mus musculus regulator of microtubule dynamics 1 (Rmdn1), mRNA [NM_025476]
A_55_P1967720	-0,37	-4,82	0,0150	Polr2i	Mus musculus polymerase (RNA) II (DNA directed) polypeptide I (Polr2i), mRNA [NM_027259]
A_51_P125260	-0,37	-4,00	0,0297	Acaa2	Mus musculus acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase) (Acaa2), mRNA [NM_177470]
A_55_P1963718	-0,37	-4,55	0,0185	Lias	Mus musculus lipoic acid synthetase (Lias), mRNA [NM_024471]
A_52_P453624	-0,37	-3,54	0,0459	Arl6ip6	Mus musculus ADP-ribosylation factor-like 6 interacting protein 6 (Arl6ip6), mRNA [NM_022989]
A_55_P1978089	-0,37	-3,98	0,0300	Dcaf17	Mus musculus DDB1 and CUL4 associated factor 17 (Dcaf17), transcript variant 2, mRNA [NM_001165981]
A_51_P372473	-0,37	-3,86	0,0338	Auh	Mus musculus AU RNA binding protein/enoyl-coenzyme A hydratase (Auh), mRNA [NM_016709]
A_66_P100440	-0,37	-3,93	0,0317	Vezf1	Mus musculus vascular endothelial zinc finger 1 (Vezf1), mRNA [NM_016686]
A_52_P386837	-0,37	-3,75	0,0377	Trmu	Mus musculus tRNA 5-methylaminomethyl-2-thiouridylate methyltransferase (Trmu), mRNA [NM_028063]
A_55_P2048848	-0,37	-3,64	0,0416	Smn1	Mus musculus survival motor neuron 1 (Smn1), transcript variant 2, mRNA [NM_001252629]
A_51_P262533	-0,37	-4,65	0,0170	Cxxc1	Mus musculus CXXC finger 1 (PHD domain) (Cxxc1), mRNA [NM_028868]
A_55_P1957967	-0,37	-4,09	0,0272	Dhx32	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 32 (Dhx32), transcript variant 1, mRNA [NM_001286030]
A_55_P2145401	-0,38	-4,55	0,0186	Hist1h3c	Mus musculus histone cluster 1, H3c (Hist1h3c), mRNA [NM_175653]
A_51_P378667	-0,38	-4,82	0,0150	Wrap53	Mus musculus WD repeat containing, antisense to Trp53 (Wrap53), mRNA [NM_144824]
A_55_P2053374	-0,38	-3,91	0,0323	Sorbs1	Mus musculus sorbin and SH3 domain containing 1 (Sorbs1), transcript variant 2, mRNA [NM_178362]
A_55_P2186480	-0,38	-3,93	0,0316	Gm1976	Mus musculus ES cells cDNA, RIKEN full-length enriched library, clone:C330007107 product:unclassifiable, full insert sequence. [AK049147]
A_51_P197378	-0,38	-4,01	0,0293	Atg12	Mus musculus autophagy related 12 (Atg12), mRNA [NM_026217]
A_66_P115053	-0,38	-3,95	0,0309	Anp32b	Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member B (Anp32b), mRNA [NM_130889]
A_51_P332602	-0,38	-4,06	0,0279	Surf1	Mus musculus surfet gene 1 (Surf1), transcript variant 1, mRNA [NM_013677]
A_51_P485391	-0,38	-3,68	0,0401	Parn	Mus musculus poly(A)-specific ribonuclease (deadenylation nuclease) (Parn), mRNA [NM_028761]
A_66_P112482	-0,38	-4,76	0,0156	Tmem184c	Mus musculus transmembrane protein 184C (Tmem184c), mRNA [NM_145599]
A_55_P2002884	-0,38	-3,90	0,0324	Zcchc24	Mus musculus zinc finger, CCHC domain containing 24 (Zcchc24), mRNA [NM_001101433]
A_55_P1957922	-0,38	-3,73	0,0380	Arrdc2	Mus musculus arrestin domain containing 2 (Arrdc2), mRNA [NM_027560]
A_55_P2064230	-0,38	-3,92	0,0318	Tmx3	Mus musculus thioredoxin-related transmembrane protein 3 (Tmx3), mRNA [NM_198295]

A_55_P2047325	-0,38	-3,66	0,0407	Mbtps1	Mus musculus membrane-bound transcription factor peptidase, site 1 (Mbtps1), transcript variant 1, mRNA [NM_019709]
A_55_P2008651	-0,38	-4,72	0,0161	Qdpr	Mus musculus quinoid dihydropteridine reductase (Qdpr), mRNA [NM_024236]
A_55_P1957909	-0,38	-4,27	0,0233	Mrpl49	Mus musculus mitochondrial ribosomal protein L49 (Mrpl49), mRNA [NM_026246]
A_55_P2075140	-0,38	-4,56	0,0183	Sirt3	Mus musculus sirtuin 3 (Sirt3), transcript variant 1, mRNA [NM_022433]
A_55_P2035827	-0,38	-3,93	0,0315	Vma21	Mus musculus VMA21 vacuolar H <sup>+</sup> -ATPase homolog (S. cerevisiae) (Vma21), transcript variant 3, mRNA [NM_001290781]
A_51_P348749	-0,38	-3,69	0,0398	Llgl2	Mus musculus lethal giant larvae homolog 2 (Drosophila) (Llgl2), transcript variant 1, mRNA [NM_145438]
A_55_P1970507	-0,38	-3,84	0,0345	Pef1	Mus musculus penta-EF hand domain containing 1 (Pef1), mRNA [NM_026441]
A_51_P512820	-0,38	-4,25	0,0238	Dera	Mus musculus 2-deoxyribose-5-phosphate aldolase homolog (C. elegans) (Dera), mRNA [NM_172733]
A_55_P2010858	-0,38	-4,34	0,0219	Mrps23	Mus musculus mitochondrial ribosomal protein S23 (Mrps23), transcript variant 3, mRNA [NM_001291271]
A_55_P2035043	-0,38	-3,53	0,0464	Gm2436	PREDICTED: Mus musculus predicted gene 2436 (Gm2436), mRNA [XM_001473587]
A_55_P2029592	-0,38	-3,73	0,0384	Dus2	Mus musculus dihydrouridine synthase 2 (Dus2), mRNA [NM_025518]
A_55_P2007693	-0,38	-3,47	0,0489	Gm4120	PREDICTED: Mus musculus predicted gene 4120 (Gm4120), mRNA [XM_006515313]
A_55_P1998159	-0,38	-4,10	0,0269	Deaf1	Mus musculus deformed epidermal autoregulatory factor 1 (Drosophila) (Deaf1), transcript variant 3, mRNA [NM_001282073]
A_55_P1966337	-0,38	-4,24	0,0239	Polr2h	Mus musculus polymerase (RNA) II (DNA directed) polypeptide H (Polr2h), mRNA [NM_145632]
A_52_P451378	-0,38	-3,65	0,0410	Twsg1	Mus musculus twisted gastrulation homolog 1 (Drosophila) (Twsg1), mRNA [NM_023053]
A_51_P452798	-0,38	-4,65	0,0170	Zfp524	Mus musculus zinc finger protein 524 (Zfp524), mRNA [NM_025324]
A_51_P445662	-0,38	-4,40	0,0208	Hsd17b4	Mus musculus hydroxysteroid (17-beta) dehydrogenase 4 (Hsd17b4), mRNA [NM_008292]
A_55_P2023181	-0,38	-3,45	0,0500	Lsm2	Mus musculus LSM2 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm2), transcript variant 3, mRNA [NM_001204273]
A_55_P2124341	-0,38	-3,71	0,0389	Lysmd1	Mus musculus LysM, putative peptidoglycan-binding, domain containing 1 (Lysmd1), mRNA [NM_153121]
A_55_P2137706	-0,38	-3,51	0,0473	Tmpo	Mus musculus thymopoietin (Tmpo), transcript variant 3, mRNA [NM_001080129]
A_51_P323299	-0,38	-4,28	0,0231	Trim28	Mus musculus tripartite motif-containing 28 (Trim28), mRNA [NM_011588]
A_55_P2086153	-0,38	-4,24	0,0239	Bcdin3d	Mus musculus BCDIN3 domain containing (Bcdin3d), mRNA [NM_029236]
A_55_P2064243	-0,38	-3,57	0,0445	Rhot2	Mus musculus ras homolog gene family, member T2 (Rhot2), mRNA [NM_145999]
A_55_P2115245	-0,38	-5,00	0,0132	Zfyve19	Mus musculus zinc finger, FYVE domain containing 19 (Zfyve19), transcript variant 1, mRNA [NM_028054]
A_51_P385635	-0,38	-4,15	0,0256	Mrpl53	Mus musculus mitochondrial ribosomal protein L53 (Mrpl53), mRNA [NM_026744]
A_55_P1972852	-0,38	-4,48	0,0195	Mcrs1	Mus musculus microspherule protein 1 (Mcrs1), transcript variant 1, mRNA [NM_016766]
A_52_P426513	-0,38	-3,45	0,0498	Sh3bgrl	Mus musculus SH3-binding domain glutamic acid-rich protein like (Sh3bgrl), mRNA [NM_019989]
A_51_P143721	-0,38	-4,07	0,0277	Vipas39	Mus musculus VPS33B interacting protein, apical-basolateral polarity regulator, spe-39 homolog (Vipas39), transcript variant 3, mRNA [NM_134044]
A_52_P342896	-0,38	-4,20	0,0246	Mrps33	Mus musculus mitochondrial ribosomal protein S33 (Mrps33), transcript variant 2, mRNA [NM_001010930]
A_55_P2134148	-0,38	-3,48	0,0486	Mzt2	Mus musculus mitotic spindle organizing protein 2 (Mzt2), mRNA [NM_029354]
A_51_P152155	-0,38	-4,79	0,0154	Glt8d1	Mus musculus glycosyltransferase 8 domain containing 1 (Glt8d1), transcript variant 1, mRNA [NM_029626]
A_55_P2149219	-0,38	-4,27	0,0233	Aar2	Mus musculus AAR2 splicing factor homolog (S. cerevisiae) (Aar2), transcript variant 1, mRNA [NM_001164818]
A_52_P228236	-0,38	-3,66	0,0407	Tfrc	Mus musculus transferrin receptor (Tfrc), mRNA [NM_011638]
A_51_P175758	-0,38	-3,71	0,0389	Atg101	Mus musculus autophagy related 101 (Atg101), mRNA [NM_026566]
A_51_P125183	-0,38	-4,64	0,0171	Coq5	Mus musculus coenzyme Q5 homolog, methyltransferase (yeast) (Coq5), mRNA [NM_026504]
A_51_P242076	-0,38	-4,11	0,0268	Ubr7	Mus musculus ubiquitin protein ligase E3 component n-recogin 7 (putative) (Ubr7), mRNA [NM_025666]
A_52_P134381	-0,38	-4,25	0,0237	Psmd12	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 12 (Psmd12), mRNA [NM_025894]
A_51_P123017	-0,38	-4,39	0,0209	Gmcl1	Mus musculus germ cell-less homolog 1 (Drosophila) (Gmcl1), mRNA [NM_011818]
A_51_P424641	-0,39	-3,72	0,0387	Sirt4	Mus musculus sirtuin 4 (Sirt4), transcript variant 1, mRNA [NM_001167691]
A_55_P1954850	-0,39	-3,82	0,0352	Pars2	Mus musculus prolyl-tRNA synthetase (mitochondrial)(putative) (Pars2), transcript variant 3, mRNA [NM_001285783]
A_55_P2052769	-0,39	-4,01	0,0293	Mast2	Mus musculus microtubule associated serine/threonine kinase 2 (Mast2), transcript variant 1, mRNA [NM_001042743]
A_51_P159284	-0,39	-3,49	0,0481	Bud13	Mus musculus BUD13 homolog (yeast) (Bud13), mRNA [NM_146000]
A_55_P2146780	-0,39	-4,75	0,0158	Sdhc	Mus musculus succinate dehydrogenase complex, subunit C, integral membrane protein (Sdhc), mRNA [NM_025321]
A_55_P2092776	-0,39	-4,43	0,0203	Apoo	Mus musculus apolipoprotein O (Apoo), transcript variant 2, mRNA [NM_001199337]
A_55_P2150025	-0,39	-3,53	0,0461	Otub1	Mus musculus OTU domain, ubiquitin aldehyde binding 1 (Otub1), mRNA [NM_134150]

A_51_P480904	-0,39	-5,07	0,0125	Blmh	Mus musculus bleomycin hydrolase (Blmh), mRNA [NM_178645]
A_66_P123014	-0,39	-3,64	0,0416	Twistnb	Mus musculus TWIST neighbor (Twistnb), mRNA [NM_172253]
A_51_P345902	-0,39	-4,00	0,0296	Dohh	Mus musculus deoxyhypusine hydroxylase/monooxygenase (Dohh), mRNA [NM_133964]
A_51_P391926	-0,39	-4,63	0,0173	Ubxn6	Mus musculus UBX domain protein 6 (Ubxn6), mRNA [NM_024432]
A_55_P2001188	-0,39	-4,29	0,0230	Phf6	Mus musculus PHD finger protein 6 (Phf6), transcript variant 1, mRNA [NM_027642]
A_51_P501312	-0,39	-4,47	0,0197	Gm16515	Mus musculus predicted gene, Gm16515 (Gm16515), mRNA [NM_025294]
A_55_P2096340	-0,39	-3,55	0,0452	Rnf170	Mus musculus ring finger protein 170 (Rnf170), mRNA [NM_029965]
A_55_P1962384	-0,39	-4,44	0,0201	Churc1	Mus musculus churchill domain containing 1 (Churc1), mRNA [NM_206534]
A_51_P135004	-0,39	-4,01	0,0293	Zfp212	Mus musculus Zinc finger protein 212 (Zfp212), transcript variant 1, mRNA [NM_145576]
A_55_P2170134	-0,39	-4,26	0,0234	Eif2b4	Mus musculus eukaryotic translation initiation factor 2B, subunit 4 delta (Eif2b4), transcript variant 1, mRNA [NM_001127356]
A_52_P409055	-0,39	-4,55	0,0185	Dcaf8	Mus musculus DDB1 and CUL4 associated factor 8 (Dcaf8), mRNA [NM_153555]
A_51_P142091	-0,39	-4,53	0,0189	Asb8	Mus musculus ankyrin repeat and SOCS box-containing 8 (Asb8), transcript variant 1, mRNA [NM_030121]
A_55_P1984497	-0,39	-3,97	0,0303	Usp48	Mus musculus ubiquitin specific peptidase 48 (Usp48), mRNA [NM_130879]
A_55_P1952788	-0,39	-3,49	0,0477	Son	Son DNA binding protein [Source:MGI Symbol;Acc:MGI:98353] [ENSMUST00000119368]
A_52_P546552	-0,39	-4,68	0,0166	Pelp1	Mus musculus proline, glutamic acid and leucine rich protein 1 (Pelp1), mRNA [NM_029231]
A_55_P2093595	-0,39	-3,74	0,0377	Mmd	Mus musculus monocyte to macrophage differentiation-associated (Mmd), mRNA [NM_026178]
A_52_P123400	-0,39	-3,62	0,0422	Dnaaf2	Mus musculus dynein, axonemal assembly factor 2 (Dnaaf2), mRNA [NM_027269]
A_55_P2007389	-0,39	-3,51	0,0473	Fam189b	Mus musculus family with sequence similarity 189, member B (Fam189b), mRNA [NM_001014995]
A_55_P2034365	-0,39	-3,54	0,0456	Eif4g3	eukaryotic translation initiation factor 4 gamma, 3 [Source:MGI Symbol;Acc:MGI:1923935] [ENSMUST00000058133]
A_52_P340079	-0,39	-3,89	0,0326	Rundc1	Mus musculus RUN domain containing 1 (Rundc1), mRNA [NM_172566]
A_52_P244193	-0,39	-4,12	0,0265	Cd24a	Mus musculus CD24a antigen (Cd24a), mRNA [NM_009846]
A_51_P389386	-0,39	-4,59	0,0178	Nsmce2	Mus musculus non-SMC element 2 homolog (MMS21, S. cerevisiae) (Nsmce2), transcript variant 1, mRNA [NM_026746]
A_55_P2029630	-0,39	-3,78	0,0365	Mpdu1	Mus musculus mannose-P-dolichol utilization defect 1 (Mpdu1), mRNA [NM_011900]
A_55_P1998651	-0,39	-4,17	0,0253	Entpd5	Mus musculus ectonucleoside triphosphate diphosphohydrolase 5 (Entpd5), transcript variant 2, mRNA [NM_001026214]
A_51_P379775	-0,39	-4,47	0,0197	Nrm	Mus musculus nurim (nuclear envelope membrane protein) (Nrm), mRNA [NM_134122]
A_51_P471779	-0,39	-4,22	0,0241	Phf5a	Mus musculus PHD finger protein 5A (Phf5a), mRNA [NM_026737]
A_52_P504302	-0,39	-4,35	0,0217	Pmpca	Mus musculus peptidase (mitochondrial processing) alpha (Pmpca), mRNA [NM_173180]
A_51_P327564	-0,39	-4,53	0,0189	Glb1	Mus musculus galactosidase, beta 1 (Glb1), transcript variant 1, mRNA [NM_009752]
A_52_P598634	-0,39	-3,98	0,0301	1190007107 Rik	Mus musculus RIKEN cDNA 1190007107 gene (1190007107Rik), transcript variant 1, mRNA [NM_001135567]
A_51_P294095	-0,39	-4,40	0,0207	Prkar1a	Mus musculus protein kinase, cAMP dependent regulatory, type I, alpha (Prkar1a), mRNA [NM_021880]
A_55_P2028491	-0,39	-3,92	0,0320	Hmgn2	Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]
A_51_P518298	-0,39	-4,44	0,0202	Rnf187	Mus musculus ring finger protein 187 (Rnf187), mRNA [NM_022423]
A_51_P394339	-0,39	-4,51	0,0191	Eif2b1	Mus musculus eukaryotic translation initiation factor 2B, subunit 1 (alpha) (Eif2b1), mRNA [NM_145371]
A_51_P475875	-0,39	-3,94	0,0313	Lrwd1	Mus musculus leucine-rich repeats and WD repeat domain containing 1 (Lrwd1), mRNA [NM_027891]
A_51_P507787	-0,39	-4,41	0,0205	Sergef	Mus musculus secretion regulating guanine nucleotide exchange factor (Sergef), mRNA [NM_013789]
A_55_P2030060	-0,39	-3,77	0,0370	Kdm8	Mus musculus lysine (K)-specific demethylase 8 (Kdm8), mRNA [NM_029842]
A_52_P208600	-0,39	-4,05	0,0280	Bms1	Mus musculus BMS1 homolog, ribosome assembly protein (yeast) (Bms1), mRNA [NM_194339]
A_52_P639551	-0,39	-3,50	0,0475	Tinf2	Mus musculus Terf1 (TRF1)-interacting nuclear factor 2 (Tinf2), mRNA [NM_145705]
A_51_P392090	-0,39	-4,85	0,0147	Tmem19	Mus musculus transmembrane protein 19 (Tmem19), mRNA [NM_133683]
A_55_P2004096	-0,39	-3,60	0,0430	Asb8	Mus musculus ankyrin repeat and SOCS box-containing 8 (Asb8), transcript variant 3, mRNA [NM_001170711]
A_55_P1975396	-0,39	-4,93	0,0139	Ighmbp2	Mus musculus immunoglobulin mu binding protein 2 (Ighmbp2), mRNA [NM_009212]
A_52_P40241	-0,39	-3,88	0,0331	Zfp746	Mus musculus zinc finger protein 746 (Zfp746), mRNA [NM_001163475]
A_51_P353008	-0,39	-3,61	0,0427	Minpp1	Mus musculus multiple inositol polyphosphate histidine phosphatase 1 (Minpp1), mRNA [NM_010799]
A_51_P196509	-0,39	-4,07	0,0277	Plekhj1	Mus musculus pleckstrin homology domain containing, family J member 1 (Plekhj1), mRNA [NM_023900]
A_51_P261351	-0,39	-4,69	0,0165	Mrpl49	Mus musculus mitochondrial ribosomal protein L49 (Mrpl49), mRNA [NM_026246]
A_51_P439085	-0,39	-4,18	0,0251	Hilpda	Mus musculus hypoxia inducible lipid droplet associated (Hilpda), transcript variant 2, mRNA [NM_023516]
A_55_P2010704	-0,39	-3,46	0,0495	2700094K13 Rik	Mus musculus RIKEN cDNA 2700094K13 gene (2700094K13Rik), transcript variant 2, mRNA [NM_001037279]



A_52_P604526	-0,39	-3,55	0,0454	Mrpl19	Mus musculus mitochondrial ribosomal protein L19 (Mrpl19), mRNA [NM_026490]
A_51_P250807	-0,39	-4,64	0,0171	Spata2l	Mus musculus spermatogenesis associated 2-like (Spata2l), mRNA [NM_030176]
A_55_P1992505	-0,39	-3,85	0,0341	Entpd4	Mus musculus ectonucleoside triphosphate diphosphohydrolase 4 (Entpd4), mRNA [NM_026174]
A_55_P1985758	-0,39	-4,39	0,0209	Psmc9	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 9 (Psmc9), mRNA [NM_026000]
A_55_P2011137	-0,40	-3,60	0,0433	Armc10	Mus musculus armadillo repeat containing 10 (Armc10), mRNA [NM_026034]
A_55_P1971804	-0,40	-4,21	0,0244	Hdac10	Mus musculus histone deacetylase 10 (Hdac10), transcript variant 1, mRNA [NM_199198]
A_51_P397925	-0,40	-4,56	0,0183	Smap2	Mus musculus small ArfGAP 2 (Smap2), mRNA [NM_133716]
A_51_P118885	-0,40	-3,93	0,0314	Amacr	Mus musculus alpha-methylacyl-CoA racemase (Amacr), mRNA [NM_008537]
A_51_P357877	-0,40	-3,77	0,0370	Fbxo46	Mus musculus F-box protein 46 (Fbxo46), mRNA [NM_175530]
A_51_P419300	-0,40	-5,22	0,0112	Pdcd2l	Mus musculus programmed cell death 2-like (Pdcd2l), mRNA [NM_026549]
A_55_P2096486	-0,40	-4,29	0,0230	Bcs1l	Mus musculus BCS1-like (yeast) (Bcs1l), mRNA [NM_025784]
A_55_P1986113	-0,40	-4,84	0,0149	Ppil1	Mus musculus peptidylprolyl isomerase (cyclophilin)-like 1 (Ppil1), mRNA [NM_026845]
A_55_P2034670	-0,40	-3,95	0,0309	Fbxl12	Mus musculus F-box and leucine-rich repeat protein 12 (Fbxl12), transcript variant 1, mRNA [NM_013911]
A_55_P2007650	-0,40	-3,77	0,0369	Nt5dc1	Mus musculus 5'-nucleotidase domain containing 1 (Nt5dc1), mRNA [NM_176968]
A_51_P514647	-0,40	-4,74	0,0159	Paip2	Mus musculus polyadenylate-binding protein-interacting protein 2 (Paip2), mRNA [NM_026420]
A_55_P2041045	-0,40	-4,59	0,0178	Csnk1g2	Mus musculus casein kinase 1, gamma 2 (Csnk1g2), transcript variant 1, mRNA [NM_134002]
A_55_P2012780	-0,40	-4,00	0,0295	Rnf167	Mus musculus ring finger protein 167 (Rnf167), mRNA [NM_027445]
A_51_P246339	-0,40	-3,85	0,0342	Rfc5	Mus musculus replication factor C (activator) 5 (Rfc5), mRNA [NM_028128]
A_52_P304858	-0,40	-3,52	0,0468	Gnb1	Mus musculus guanine nucleotide binding protein (G protein), beta 1 (Gnb1), transcript variant 1, mRNA [NM_008142]
A_51_P339713	-0,40	-4,92	0,0140	Mrps26	Mus musculus mitochondrial ribosomal protein S26 (Mrps26), mRNA [NM_207207]
A_51_P294778	-0,40	-3,61	0,0427	Zfp954	Mus musculus zinc finger protein 954 (Zfp954), mRNA [NM_172738]
A_55_P2024640	-0,40	-3,90	0,0326	Eral1	Mus musculus Era (G-protein)-like 1 (E. coli) (Eral1), mRNA [NM_022313]
A_55_P2014319	-0,40	-3,65	0,0410	Armcx6	Mus musculus armadillo repeat containing, X-linked 6 (Armcx6), mRNA [NM_001007578]
A_52_P517896	-0,40	-4,78	0,0155	Man2c1	Mus musculus mannosidase, alpha, class 2C, member 1 (Man2c1), mRNA [NM_028636]
A_51_P292757	-0,40	-3,58	0,0439	Acbd4	Mus musculus acyl-Coenzyme A binding domain containing 4 (Acbd4), transcript variant 1, mRNA [NM_025988]
A_51_P103718	-0,40	-4,23	0,0240	Ip6k1	Mus musculus inositol hexaphosphate kinase 1 (Ip6k1), mRNA [NM_013785]
A_55_P2112947	-0,40	-3,68	0,0401	Srp9	Mus musculus signal recognition particle 9 (Srp9), mRNA [NM_012058]
A_55_P2023772	-0,40	-4,84	0,0149	Fam107b	Mus musculus family with sequence similarity 107, member B (Fam107b), mRNA [NM_025626]
A_51_P453948	-0,40	-4,38	0,0212	Drg1	Mus musculus developmentally regulated GTP binding protein 1 (Drg1), mRNA [NM_007879]
A_51_P206655	-0,40	-4,68	0,0166	Lsm1	Mus musculus LSM1 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm1), mRNA [NM_026032]
A_51_P119031	-0,40	-4,25	0,0237	Naa30	Mus musculus N(alpha)-acetyltransferase 30, NatC catalytic subunit (Naa30), mRNA [NM_001081430]
A_52_P342159	-0,40	-3,74	0,0380	Nfatc4	Mus musculus nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4 (Nfatc4), transcript variant 1, mRNA [NM_023699]
A_55_P1979397	-0,40	-3,94	0,0314	Palm	Mus musculus paralemmin (Palm), transcript variant 1, mRNA [NM_023128]
A_51_P418420	-0,40	-4,46	0,0199	Ddx3x	Mus musculus DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 3, X-linked (Ddx3x), mRNA [NM_010028]
A_51_P292073	-0,40	-3,57	0,0444	Haghl	Mus musculus hydroxyacylglutathione hydrolase-like (Haghl), transcript variant 2, mRNA [NM_026897]
A_55_P2030506	-0,40	-3,66	0,0407	Rp9	Mus musculus retinitis pigmentosa 9 (human) (Rp9), mRNA [NM_018739]
A_55_P1966528	-0,40	-3,98	0,0300	Pmf1	Mus musculus polyamine-modulated factor 1 (Pmf1), mRNA [NM_025928]
A_66_P121770	-0,40	-4,22	0,0243	Ilf2	Mus musculus interleukin enhancer binding factor 2 (Ilf2), mRNA [NM_026374]
A_55_P1968493	-0,40	-4,42	0,0204	Telo2	Mus musculus TEL2, telomere maintenance 2, homolog (S. cerevisiae) (Telo2), transcript variant 1, mRNA [NM_001163661]
A_51_P443569	-0,40	-4,57	0,0183	Mum1	Mus musculus melanoma associated antigen (mutated) 1 (Mum1), mRNA [NM_023431]
A_55_P1974617	-0,40	-3,61	0,0427	Lysmd1	Mus musculus LysM, putative peptidoglycan-binding, domain containing 1 (Lysmd1), mRNA [NM_153121]
A_51_P197883	-0,40	-4,09	0,0271	Exo5	Mus musculus exonuclease 5 (Exo5), transcript variant 1, mRNA [NM_028457]
A_52_P203981	-0,40	-3,74	0,0377	Srek1ip1	Mus musculus splicing regulatory glutamine/lysine-rich protein 1 interacting protein 1 (Srek1ip1), mRNA [NM_026075]
A_51_P254912	-0,40	-3,59	0,0436	Rfc2	Mus musculus replication factor C (activator) 2 (Rfc2), mRNA [NM_020022]
A_51_P307243	-0,40	-4,05	0,0283	Ppp5c	Mus musculus protein phosphatase 5, catalytic subunit (Ppp5c), mRNA [NM_011155]
A_66_P136372	-0,40	-5,02	0,0130	Mrpl9	Mus musculus mitochondrial ribosomal protein L9 (Mrpl9), mRNA [NM_030116]
A_55_P2013501	-0,40	-3,78	0,0365	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]

A_52_P572447	-0,40	-4,41	0,0207	Agpat5	Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 5 (lysophosphatidic acid acyltransferase, epsilon) (Agpat5), mRNA [NM_026792]
A_51_P420655	-0,40	-4,27	0,0234	Reep4	Mus musculus receptor accessory protein 4 (Reep4), mRNA [NM_180588]
A_52_P531662	-0,40	-4,23	0,0240	Ttc9c	Mus musculus tetratricopeptide repeat domain 9C (Ttc9c), mRNA [NM_027412]
A_52_P367791	-0,40	-4,24	0,0239	Mri1	Mus musculus methylthioribose-1-phosphate isomerase homolog (S. cerevisiae) (Mri1), mRNA [NM_026423]
A_66_P100050	-0,40	-4,93	0,0139	1810043H04 Rik	Mus musculus RIKEN cDNA 1810043H04 gene (1810043H04Rik), mRNA [NM_001110242]
A_55_P1982718	-0,40	-4,89	0,0144	Rtfdc1	Mus musculus replication termination factor 2 domain containing 1 (Rtfdc1), mRNA [NM_025542]
A_51_P513941	-0,40	-4,59	0,0179	Lrpap1	Mus musculus low density lipoprotein receptor-related protein associated protein 1 (Lrpap1), mRNA [NM_013587]
A_55_P2128663	-0,40	-3,53	0,0460	Uggt1	Mus musculus UDP-glucose glycoprotein glucosyltransferase 1 (Uggt1), mRNA [NM_198899]
A_55_P2149511	-0,40	-5,40	0,0101	Mff	Mus musculus mitochondrial fission factor (Mff), mRNA [NM_029409]
A_55_P2042953	-0,40	-3,91	0,0322	Acd	Mus musculus adrenocortical dysplasia (Acd), mRNA [NM_001012638]
A_55_P2010332	-0,41	-4,56	0,0185	Ewsr1	Mus musculus Ewing sarcoma breakpoint region 1 (Ewsr1), transcript variant 1, mRNA [NM_001283061]
A_55_P2087240	-0,41	-3,55	0,0450	Mipep	Mus musculus mitochondrial intermediate peptidase (Mipep), transcript variant 1, mRNA [NM_027436]
A_55_P2005753	-0,41	-3,52	0,0467	Manbal	Mus musculus mannosidase, beta A, lysosomal-like (Manbal), mRNA [NM_026968]
A_55_P2097309	-0,41	-3,55	0,0453	Nudt4	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 4 (Nudt4), mRNA [NM_027722]
A_51_P298486	-0,41	-4,42	0,0204	Cog6	Mus musculus component of oligomeric golgi complex 6 (Cog6), mRNA [NM_026225]
A_55_P2080774	-0,41	-3,83	0,0349	Qdpr	Mus musculus quinoid dihydropteridine reductase (Qdpr), mRNA [NM_024236]
A_55_P2100895	-0,41	-3,94	0,0313	Arnt	Mus musculus aryl hydrocarbon receptor nuclear translocator (Arnt), transcript variant 1, mRNA [NM_001037737]
A_55_P1978441	-0,41	-3,61	0,0424	Kif3a	Mus musculus kinesin family member 3A (Kif3a), transcript variant 3, mRNA [NM_001290806]
A_55_P2070721	-0,41	-4,46	0,0198	Rapgef1	Mus musculus Rap guanine nucleotide exchange factor (GEF) 1 (Rapgef1), transcript variant 1, mRNA [NM_001039087]
A_55_P2105873	-0,41	-3,88	0,0331	Ppp2r5c	Mus musculus protein phosphatase 2, regulatory subunit B', gamma (Ppp2r5c), transcript variant 4, mRNA [NM_001135001]
A_55_P1973289	-0,41	-4,25	0,0236	Mapk9	Mus musculus mitogen-activated protein kinase 9 (Mapk9), transcript variant alpha1, mRNA [NM_001163672]
A_55_P2015700	-0,41	-4,99	0,0132	Evi5l	ecotropic viral integration site 5 like [Source:MGI Symbol;Acc:MGI:2442167] [ENSMUST00000176764]
A_51_P353592	-0,41	-3,90	0,0326	Comm4	Mus musculus COMM domain containing 4 (Comm4), mRNA [NM_025417]
A_55_P2030128	-0,41	-4,07	0,0275	Tfpt	Mus musculus TCF3 (E2A) fusion partner (Tfpt), transcript variant 2, mRNA [NM_023524]
A_55_P1984721	-0,41	-4,58	0,0181	Ube2i	Mus musculus ubiquitin-conjugating enzyme E2i (Ube2i), transcript variant 2, mRNA [NM_001177609]
A_51_P211968	-0,41	-4,88	0,0144	Lcmt1	Mus musculus leucine carboxyl methyltransferase 1 (Lcmt1), mRNA [NM_025304]
A_51_P488092	-0,41	-3,95	0,0312	Pde6d	Mus musculus phosphodiesterase 6D, cGMP-specific, rod, delta (Pde6d), mRNA [NM_008801]
A_52_P297457	-0,41	-3,66	0,0408	0610030E20 Rik	Mus musculus RIKEN cDNA 0610030E20 gene (0610030E20Rik), mRNA [NM_026696]
A_52_P585831	-0,41	-4,21	0,0245	Bap1	Mus musculus Brca1 associated protein 1 (Bap1), mRNA [NM_027088]
A_51_P491470	-0,41	-4,20	0,0247	Ddx47	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 47 (Ddx47), mRNA [NM_026360]
A_55_P2006940	-0,41	-4,17	0,0253	Sfmbt1	Mus musculus Scm-like with four mbt domains 1 (Sfmbt1), transcript variant 1, mRNA [NM_001166532]
A_55_P2019964	-0,41	-4,35	0,0216	Lanc1	Mus musculus LanC (bacterial lantibiotic synthetase component C)-like 1 (Lanc1), transcript variant 1, mRNA [NM_001190985]
A_55_P2131353	-0,41	-4,10	0,0270	1110059G10 Rik	Mus musculus RIKEN cDNA 1110059G10 gene (1110059G10Rik), mRNA [NM_025419]
A_51_P184910	-0,41	-4,34	0,0220	Phpt1	Mus musculus phosphohistidine phosphatase 1 (Phpt1), mRNA [NM_029293]
A_51_P502764	-0,41	-3,90	0,0325	Hdac10	Mus musculus histone deacetylase 10 (Hdac10), transcript variant 1, mRNA [NM_199198]
A_55_P2065966	-0,41	-3,49	0,0480	Ctdp1	Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1 (Ctdp1), mRNA [NM_026295]
A_51_P336952	-0,41	-4,13	0,0261	Cryl1	Mus musculus crystallin, lambda 1 (Cryl1), mRNA [NM_030004]
A_51_P431554	-0,41	-4,54	0,0187	Ten1	Mus musculus TEN1 telomerase capping complex subunit (Ten1), mRNA [NM_027107]
A_51_P404413	-0,41	-4,18	0,0250	Bckdk	Mus musculus branched chain ketoacid dehydrogenase kinase (Bckdk), mRNA [NM_009739]
A_55_P2138816	-0,41	-4,77	0,0156	Mplkip	Mus musculus M-phase specific PLK1 interacting protein (Mplkip), mRNA [NM_025479]
A_55_P1977314	-0,41	-3,75	0,0375	Ulk1	Mus musculus unc-51 like kinase 1 (Ulk1), mRNA [NM_009469]
A_55_P1975685	-0,41	-3,87	0,0335	Nup37	Mus musculus nucleoporin 37 (Nup37), transcript variant 1, mRNA [NM_028334]
A_55_P2120807	-0,41	-3,80	0,0359	Dld	Mus musculus dihydrolipoamide dehydrogenase (Dld), mRNA [NM_007861]
A_55_P2023777	-0,41	-4,14	0,0260	Tmx2	Mus musculus thioredoxin-related transmembrane protein 2 (Tmx2), transcript variant 1, mRNA [NM_025868]
A_55_P2028710	-0,41	-3,49	0,0477	Rnf170	Mus musculus ring finger protein 170 (Rnf170), mRNA [NM_029965]
A_55_P1969939	-0,41	-3,64	0,0416	Zfp758	Mus musculus zinc finger protein 758 (Zfp758), mRNA [NM_145484]



A_55_P2070179	-0,41	-4,04	0,0283	Ing4	Mus musculus inhibitor of growth family, member 4 (Ing4), mRNA [NM_133345]
A_52_P238242	-0,42	-4,01	0,0293	Sertad2	Mus musculus SERTA domain containing 2 (Sertad2), transcript variant 1, mRNA [NM_021372]
A_52_P392509	-0,42	-4,22	0,0242	Gin1	PREDICTED: Mus musculus gypsy retrotransposon integrase 1 (Gin1), transcript variant X1, mRNA [XM_006529614]
A_51_P253633	-0,42	-4,12	0,0265	Mrps9	Mus musculus mitochondrial ribosomal protein S9 (Mrps9), mRNA [NM_023514]
A_55_P2128169	-0,42	-3,62	0,0422	Trappc13	Mus musculus trafficking protein particle complex 13 (Trappc13), transcript variant 1, mRNA [NM_025879]
A_51_P253697	-0,42	-4,79	0,0153	Rpain	Mus musculus RPA interacting protein (Rpain), transcript variant 1, mRNA [NM_027186]
A_55_P2169849	-0,42	-5,35	0,0103	Thoc6	Mus musculus THO complex 6 homolog (Drosophila) (Thoc6), mRNA [NM_001008425]
A_51_P475995	-0,42	-4,69	0,0165	Thra	Mus musculus thyroid hormone receptor alpha (Thra), mRNA [NM_178060]
A_51_P151271	-0,42	-5,20	0,0113	Eif4b	Mus musculus eukaryotic translation initiation factor 4B (Eif4b), mRNA [NM_145625]
A_51_P320481	-0,42	-4,24	0,0239	Mcee	Mus musculus methylmalonyl CoA epimerase (Mcee), mRNA [NM_028626]
A_55_P1981336	-0,42	-3,66	0,0410	Sdccag8	Mus musculus serologically defined colon cancer antigen 8 (Sdccag8), mRNA [NM_029756]
A_51_P478238	-0,42	-3,58	0,0438	Tdrd1	Mus musculus tudor domain containing 1 (Tdrd1), transcript variant 4, mRNA [NM_031387]
A_52_P289256	-0,42	-4,24	0,0239	Arid1b	Mus musculus AT rich interactive domain 1B (SWI-like) (Arid1b), mRNA [NM_001085355]
A_65_P04980	-0,42	-3,68	0,0400	Ilf3	Mus musculus interleukin enhancer binding factor 3 (Ilf3), transcript variant 3, mRNA [NM_001042708]
A_55_P2161585	-0,42	-3,49	0,0478	Coq10a	Mus musculus coenzyme Q10 homolog A (yeast) (Coq10a), mRNA [NM_001081040]
A_51_P159814	-0,42	-3,83	0,0347	Smpd4	Mus musculus sphingomyelin phosphodiesterase 4 (Smpd4), transcript variant 1, mRNA [NM_029945]
A_52_P442756	-0,42	-4,33	0,0221	Btf3l4	Mus musculus basic transcription factor 3-like 4 (Btf3l4), mRNA [NM_027453]
A_51_P454666	-0,42	-4,53	0,0189	Arl6ip4	Mus musculus ADP-ribosylation factor-like 6 interacting protein 4 (Arl6ip4), mRNA [NM_144509]
A_51_P209518	-0,42	-3,71	0,0389	Galnt1	Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 1 (Galnt1), transcript variant 1, mRNA [NM_013814]
A_55_P2033521	-0,42	-4,24	0,0238	Med6	Mus musculus mediator complex subunit 6 (Med6), mRNA [NM_027213]
A_55_P2134852	-0,42	-4,16	0,0254	Cnot2	Mus musculus CCR4-NOT transcription complex, subunit 2 (Cnot2), transcript variant 1, mRNA [NM_001037846]
A_51_P256093	-0,42	-4,06	0,0279	Map2k6	Mus musculus mitogen-activated protein kinase kinase 6 (Map2k6), mRNA [NM_011943]
A_51_P255193	-0,42	-3,65	0,0412	Faf2	Mus musculus Fas associated factor family member 2 (Faf2), mRNA [NM_178397]
A_51_P315795	-0,42	-4,04	0,0284	Tubb4a	Mus musculus tubulin, beta 4A class IVA (Tubb4a), mRNA [NM_009451]
A_51_P289987	-0,42	-4,41	0,0207	Psmg3	Mus musculus proteasome (prosome, macropain) assembly chaperone 3 (Psmg3), mRNA [NM_025604]
A_55_P2166743	-0,42	-4,31	0,0225	Sp3os	Mus musculus trans-acting transcription factor 3, opposite strand (Sp3os), long non-coding RNA [NR_045269]
A_51_P473240	-0,42	-4,33	0,0222	Zfp426	Mus musculus zinc finger protein 426 (Zfp426), transcript variant 1, mRNA [NM_146221]
A_52_P526265	-0,42	-4,82	0,0150	Wdr73	Mus musculus WD repeat domain 73 (Wdr73), transcript variant 1, mRNA [NM_028026]
A_52_P272811	-0,42	-4,21	0,0244	Cpsf1	Mus musculus cleavage and polyadenylation specific factor 1 (Cpsf1), transcript variant 2, mRNA [NM_053193]
A_51_P167360	-0,42	-4,20	0,0248	Ptpn7	Mus musculus protein tyrosine phosphatase, non-receptor type 7 (Ptpn7), mRNA [NM_177081]
A_52_P191975	-0,42	-3,64	0,0413	Rtn3	Mus musculus reticulon 3 (Rtn3), transcript variant 1, mRNA [NM_001003934]
A_51_P383629	-0,42	-3,64	0,0416	Vps4a	Mus musculus vacuolar protein sorting 4a (yeast) (Vps4a), mRNA [NM_126165]
A_55_P1965114	-0,42	-4,44	0,0201	Spsb3	Mus musculus splA/ryanodine receptor domain and SOCS box containing 3 (Spsb3), transcript variant 1, mRNA [NM_001163750]
A_51_P357085	-0,42	-4,30	0,0227	Dctn6	Mus musculus dynactin 6 (Dctn6), mRNA [NM_011722]
A_55_P2045476	-0,42	-4,38	0,0211	Hmgxb4	Mus musculus HMG box domain containing 4 (Hmgxb4), mRNA [NM_178017]
A_55_P1990964	-0,42	-3,45	0,0498	Osbpl11	Mus musculus oxysterol binding protein-like 11 (Osbpl11), mRNA [NM_176840]
A_55_P1968129	-0,42	-4,75	0,0158	Tceb1	Mus musculus transcription elongation factor B (SIII), polypeptide 1 (Tceb1), mRNA [NM_026456]
A_51_P173022	-0,42	-5,05	0,0127	Nsmce1	Mus musculus non-SMC element 1 homolog (S. cerevisiae) (Nsmce1), mRNA [NM_026330]
A_55_P1975832	-0,42	-4,12	0,0265	1810009N02 Rik	Mus musculus RIKEN cDNA 1810009N02 gene (1810009N02Rik), mRNA [NM_026939]
A_51_P466673	-0,42	-4,48	0,0196	Srsf7	Mus musculus serine/arginine-rich splicing factor 7 (Srsf7), transcript variant 1, mRNA [NM_146083]
A_51_P257982	-0,42	-3,46	0,0495	Usp29	Mus musculus ubiquitin specific peptidase 29 (Usp29), transcript variant 2, mRNA [NM_021323]
A_55_P1994564	-0,42	-4,62	0,0175	Sap30bp	Mus musculus SAP30 binding protein (Sap30bp), mRNA [NM_020483]
A_55_P2099700	-0,42	-4,65	0,0170	Klc4	PREDICTED: Mus musculus kinesin light chain 4 (Klc4), transcript variant X2, mRNA [XM_006525043]
A_51_P464234	-0,42	-3,88	0,0331	Fkbp2	Mus musculus FK506 binding protein 2 (Fkbp2), transcript variant 1, mRNA [NM_008020]
A_55_P1994773	-0,42	-3,90	0,0325	Gm16381	Mus musculus predicted gene 16381 (Gm16381), mRNA [NM_001166062]
A_52_P591166	-0,42	-4,20	0,0247	Dpysl2	Mus musculus dihydropyrimidinase-like 2 (Dpysl2), mRNA [NM_009955]

A_51_P321965	-0,42	-5,22	0,0111	Ssna1	Mus musculus Sjogren's syndrome nuclear autoantigen 1 (Ssna1), mRNA [NM_023464]
A_55_P1952676	-0,42	-4,86	0,0146	Gtf2a2	Mus musculus general transcription factor II A, 2 (Gtf2a2), transcript variant 1, mRNA [NM_001282083]
A_52_P375493	-0,42	-3,88	0,0332	Tfdp1	Mus musculus transcription factor Dp 1 (Tfdp1), transcript variant 1, mRNA [NM_009361]
A_51_P208361	-0,42	-4,11	0,0267	Ak3	Mus musculus adenylate kinase 3 (Ak3), mRNA [NM_021299]
A_55_P2006615	-0,42	-3,65	0,0412	Rbbp9	Mus musculus retinoblastoma binding protein 9 (Rbbp9), mRNA [NM_015754]
A_51_P224517	-0,43	-3,74	0,0378	Jade1	Mus musculus jade family PHD finger 1 (Jade1), transcript variant 1, mRNA [NM_172303]
A_55_P2044458	-0,43	-4,07	0,0277	Pramef8	Mus musculus PRAME family member 8 (Pramef8), mRNA [NM_172877]
A_51_P352381	-0,43	-3,56	0,0447	Dhrs4	Mus musculus dehydrogenase/reductase (SDR family) member 4 (Dhrs4), transcript variant 2, mRNA [NM_030686]
A_55_P2052749	-0,43	-3,90	0,0325	Pcm1	Mus musculus pericentriolar material 1 (Pcm1), mRNA [NM_023662]
A_51_P126525	-0,43	-4,78	0,0155	D230025D16 Rik	Mus musculus RIKEN cDNA D230025D16 gene (D230025D16Rik), mRNA [NM_145604]
A_66_P103490	-0,43	-4,27	0,0233	Srsf1	Mus musculus serine/arginine-rich splicing factor 1 (Srsf1), transcript variant 2, mRNA [NM_001078167]
A_66_P109562	-0,43	-5,84	0,0077	Gm12271	PREDICTED: Mus musculus predicted gene 12271 (Gm12271), mRNA [XM_890719]
A_55_P2180884	-0,43	-3,79	0,0362	Psmd10	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 10 (Psmd10), transcript variant 1, mRNA [NM_016883]
A_55_P1972426	-0,43	-5,71	0,0084	Pdzd11	Mus musculus PDZ domain containing 11 (Pdzd11), mRNA [NM_028303]
A_55_P2066041	-0,43	-4,13	0,0261	Hnrnpa1	Mus musculus heterogeneous nuclear ribonucleoprotein A1 (Hnrnpa1), transcript variant 1, mRNA [NM_010447]
A_51_P181746	-0,43	-3,95	0,0309	Zfyve1	Mus musculus zinc finger, FYVE domain containing 1 (Zfyve1), mRNA [NM_183154]
A_55_P2007510	-0,43	-4,61	0,0176	Pef1	Mus musculus penta-EF hand domain containing 1 (Pef1), mRNA [NM_026441]
A_55_P2025959	-0,43	-4,39	0,0210	Chd9	Mus musculus chromodomain helicase DNA binding protein 9 (Chd9), mRNA [NM_177224]
A_52_P57526	-0,43	-4,30	0,0227	Sin3b	Mus musculus transcriptional regulator, SIN3B (yeast) (Sin3b), transcript variant 2, mRNA [NM_00113248]
A_52_P237669	-0,43	-4,87	0,0145	Nup54	Mus musculus nucleoporin 54 (Nup54), mRNA [NM_183392]
A_66_P105843	-0,43	-5,32	0,0106	Cyth2	Mus musculus cytohesin 2 (Cyth2), transcript variant 1, mRNA [NM_011181]
A_52_P625431	-0,43	-3,66	0,0407	Hnrnpa0	Mus musculus heterogeneous nuclear ribonucleoprotein A0 (Hnrnpa0), mRNA [NM_029872]
A_55_P2064053	-0,43	-4,65	0,0170	Ctage5	Mus musculus CTAGE family, member 5 (Ctage5), transcript variant 1, mRNA [NM_146034]
A_55_P1957633	-0,43	-4,82	0,0150	Gpsm3	Mus musculus G-protein signalling modulator 3 (AGS3-like, C. elegans) (Gpsm3), mRNA [NM_134116]
A_52_P639101	-0,43	-3,66	0,0409	Lrrc14	Mus musculus leucine rich repeat containing 14 (Lrrc14), mRNA [NM_145471]
A_52_P161400	-0,43	-3,94	0,0314	Cnpy4	Mus musculus canopy 4 homolog (zebrafish) (Cnpy4), mRNA [NM_178612]
A_52_P280899	-0,43	-4,94	0,0139	Wdr33	Mus musculus WD repeat domain 33 (Wdr33), transcript variant 1, mRNA [NM_028866]
A_55_P1953103	-0,43	-3,79	0,0363	Nudt7	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 7 (Nudt7), transcript variant 4, mRNA [NM_001290181]
A_55_P2021991	-0,43	-4,89	0,0143	Zmym4	Mus musculus zinc finger, MYM-type 4 (Zmym4), mRNA [NM_001114399]
A_55_P2052172	-0,43	-4,17	0,0253	LOC102643064	PREDICTED: Mus musculus NHP2-like protein 1-like (LOC102643064), misc_RNA [XR_403709]
A_55_P2161829	-0,43	-3,45	0,0497	Hmgb1-rs17	Mus musculus high mobility group box 1, related sequence 17 (Hmgb1-rs17), non-coding RNA [NR_033589]
A_55_P2042525	-0,43	-5,23	0,0111	Apoo	Mus musculus apolipoprotein O (Apoo), transcript variant 2, mRNA [NM_001199337]
A_51_P159415	-0,43	-4,53	0,0188	Sin3a	Mus musculus transcriptional regulator, SIN3A (yeast) (Sin3a), transcript variant 1, mRNA [NM_011378]
A_52_P80806	-0,43	-4,58	0,0181	Syncrip	Mus musculus synaptotagmin binding, cytoplasmic RNA interacting protein (Syncrip), transcript variant 2, mRNA [NM_019796]
A_51_P141836	-0,43	-4,62	0,0175	Ube3c	Mus musculus ubiquitin protein ligase E3C (Ube3c), mRNA [NM_133907]
A_51_P468780	-0,43	-4,53	0,0188	Hmg20a	Mus musculus high mobility group 20A (Hmg20a), mRNA [NM_025812]
A_51_P331385	-0,43	-3,87	0,0335	Paip2b	Mus musculus poly(A) binding protein interacting protein 2B (Paip2b), mRNA [NM_146169]
A_55_P2088331	-0,43	-3,87	0,0336	Ctdsp2	Mus musculus CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2 (Ctdsp2), transcript variant a, mRNA [NM_001113470]
A_51_P113003	-0,43	-4,88	0,0145	Cenpq	Mus musculus centromere protein Q (Cenpq), mRNA [NM_031863]
A_51_P369897	-0,43	-4,34	0,0220	Zfp410	Mus musculus zinc finger protein 410 (Zfp410), transcript variant 1, mRNA [NM_144833]
A_51_P199608	-0,43	-3,52	0,0467	Ttl1	Mus musculus tubulin tyrosine ligase-like 1 (Ttl1), mRNA [NM_178869]
A_55_P1957219	-0,43	-3,84	0,0346	Ptma	Mus musculus prothymosin alpha (Ptma), mRNA [NM_008972]
A_55_P2003096	-0,43	-3,77	0,0368	Pla2g6	Mus musculus phospholipase A2, group VI (Pla2g6), transcript variant 2, mRNA [NM_001199023]
A_51_P370380	-0,43	-3,56	0,0450	Rdh14	Mus musculus retinol dehydrogenase 14 (all-trans and 9-cis) (Rdh14), mRNA [NM_023697]
A_51_P210928	-0,43	-3,70	0,0392	Tsta3	Mus musculus tissue specific transplantation antigen P35B (Tsta3), mRNA [NM_031201]

A_55_P2372902	-0,43	-3,86	0,0338	5330438D12 Rik	PREDICTED: Mus musculus RIKEN cDNA 5330438D12 gene (5330438D12Rik), misc_RNA [XR_380953]
A_55_P2057916	-0,43	-3,76	0,0372	Pex5	Mus musculus peroxisomal biogenesis factor 5 (Pex5), transcript variant 5, mRNA [NM_001277805]
A_55_P2001718	-0,43	-3,75	0,0377	Pex1	Mus musculus peroxisomal biogenesis factor 1 (Pex1), mRNA [NM_027777]
A_51_P106397	-0,43	-3,69	0,0396	Prkd3	Mus musculus protein kinase D3 (Prkd3), transcript variant 2, mRNA [NM_029239]
A_51_P158061	-0,43	-3,55	0,0454	Dalrd3	Mus musculus DALR anticodon binding domain containing 3 (Dalrd3), mRNA [NM_026378]
A_52_P404461	-0,44	-5,87	0,0076	Tmem60	Mus musculus transmembrane protein 60 (Tmem60), mRNA [NM_177601]
A_55_P1956572	-0,44	-4,57	0,0183	Dcaf8	Mus musculus DDB1 and CUL4 associated factor 8 (Dcaf8), mRNA [NM_153555]
A_52_P35064	-0,44	-3,92	0,0319	Tm7sf2	Mus musculus transmembrane 7 superfamily member 2 (Tm7sf2), mRNA [NM_028454]
A_55_P2038867	-0,44	-4,71	0,0162	Mcat	Mus musculus malonyl CoA:ACP acyltransferase (mitochondrial) (Mcat), mRNA [NM_001030014]
A_51_P272586	-0,44	-4,73	0,0160	Dym	Mus musculus dymeclin (Dym), mRNA [NM_027727]
A_55_P2134251	-0,44	-3,76	0,0371	Hmgb1	Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130095009 product:high mobility group box 1, full insert sequence. [AK051800]
A_55_P2102350	-0,44	-4,68	0,0166	Stambpl1	Mus musculus STAM binding protein like 1 (Stambpl1), mRNA [NM_029682]
A_55_P1976490	-0,44	-4,35	0,0218	Lman2l	Mus musculus lectin, mannose-binding 2-like (Lman2l), mRNA [NM_001013374]
A_55_P2025143	-0,44	-4,10	0,0269	Tlk1	Mus musculus tousled-like kinase 1 (Tlk1), mRNA [NM_172664]
A_51_P398235	-0,44	-4,26	0,0235	Dnajc11	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 11 (Dnajc11), mRNA [NM_172704]
A_52_P669964	-0,44	-4,12	0,0265	Cchcr1	Mus musculus coiled-coil alpha-helical rod protein 1 (Cchcr1), mRNA [NM_146248]
A_51_P452875	-0,44	-4,24	0,0239	Pigyl	Mus musculus phosphatidylinositol glycan anchor biosynthesis, class Y-like (Pigyl), mRNA [NM_001082532]
A_55_P2131785	-0,44	-3,63	0,0418	Kiz	Mus musculus kizuna centrosomal protein (Kiz), mRNA [NM_001033298]
A_52_P350664	-0,44	-3,83	0,0348	Pygb	Mus musculus brain glycogen phosphorylase (Pygb), mRNA [NM_153781]
A_51_P104891	-0,44	-4,19	0,0248	Ept1	Mus musculus ethanolaminephosphotransferase 1 (CDP-ethanolamine-specific) (Ept1), mRNA [NM_027652]
A_51_P213030	-0,44	-3,88	0,0333	Macrocl1	Mus musculus MACRO domain containing 1 (Macrocl1), mRNA [NM_134147]
A_51_P285042	-0,44	-4,07	0,0277	Rtf1	Mus musculus Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) (Rtf1), mRNA [NM_030112]
A_52_P610403	-0,44	-4,31	0,0226	Sf1	Mus musculus splicing factor 1 (Sf1), transcript variant 1, mRNA [NM_001110791]
A_55_P2133225	-0,44	-4,03	0,0287	Mmgt2	Mus musculus membrane magnesium transporter 2 (Mmgt2), mRNA [NM_175002]
A_51_P282092	-0,44	-5,66	0,0086	Urod	Mus musculus uroporphyrinogen decarboxylase (Urod), mRNA [NM_009478]
A_55_P2060101	-0,44	-3,77	0,0370	Tprgl	Mus musculus transformation related protein 63 regulated like (Tprgl), mRNA [NM_026388]
A_51_P324442	-0,44	-4,02	0,0289	Wdr35	Mus musculus WD repeat domain 35 (Wdr35), transcript variant 1, mRNA [NM_172470]
A_52_P134556	-0,44	-4,27	0,0234	Cd2bp2	Mus musculus CD2 antigen (cytoplasmic tail) binding protein 2 (Cd2bp2), transcript variant 4, mRNA [NM_027353]
A_52_P632093	-0,44	-3,84	0,0346	Gtf3c3	Mus musculus general transcription factor IIIC, polypeptide 3 (Gtf3c3), mRNA [NM_001033194]
A_55_P2109257	-0,44	-4,28	0,0230	Nipal3	Mus musculus NIPA-like domain containing 3 (Nipal3), mRNA [NM_028995]
A_55_P2000638	-0,44	-3,74	0,0378	Stag2	Mus musculus stromal antigen 2 (Stag2), transcript variant 2, mRNA [NM_001077712]
A_51_P519555	-0,44	-5,09	0,0123	Gnb1l	Mus musculus guanine nucleotide binding protein (G protein), beta polypeptide 1-like (Gnb1l), transcript variant 2, mRNA [NM_023120]
A_55_P1998596	-0,44	-4,88	0,0145	Nupl2	Mus musculus nucleoporin like 2 (Nupl2), mRNA [NM_153092]
A_52_P202029	-0,44	-3,51	0,0473	Trak2	Mus musculus trafficking protein, kinesin binding 2 (Trak2), mRNA [NM_172406]
A_55_P2061809	-0,44	-4,48	0,0195	Ndufc2	Mus musculus NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 2 (Ndufc2), mRNA [NM_024220]
A_51_P492410	-0,44	-4,68	0,0165	Pmvk	Mus musculus phosphomevalonate kinase (Pmvk), transcript variant 1, mRNA [NM_026784]
A_51_P226142	-0,44	-5,00	0,0132	Dennd6a	Mus musculus DENN/MADD domain containing 6A (Dennd6a), transcript variant 4, mRNA [NM_001285467]
A_55_P2169445	-0,44	-4,72	0,0161	Mfsd6	Mus musculus major facilitator superfamily domain containing 6 (Mfsd6), transcript variant 1, mRNA [NM_133829]
A_52_P32864	-0,44	-3,85	0,0341	Prps2	Mus musculus phosphoribosyl pyrophosphate synthetase 2 (Prps2), mRNA [NM_026662]
A_55_P2178808	-0,44	-4,30	0,0227	Zbtb5	Mus musculus zinc finger and BTB domain containing 5 (Zbtb5), transcript variant 1, mRNA [NM_001163284]
A_55_P2151091	-0,44	-3,65	0,0410	Phactr4	Mus musculus phosphatase and actin regulator 4 (Phactr4), transcript variant 1, mRNA [NM_175306]
A_55_P1993594	-0,44	-5,62	0,0088	Dcp1b	Mus musculus DCP1 decapping enzyme homolog B (S. cerevisiae) (Dcp1b), mRNA [NM_001033379]
A_51_P338998	-0,44	-4,70	0,0164	Prim2	Mus musculus DNA primase, p58 subunit (Prim2), mRNA [NM_008922]
A_51_P123297	-0,44	-3,75	0,0375	Ppp1r7	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 7 (Ppp1r7), mRNA [NM_023200]
A_55_P2022337	-0,44	-3,74	0,0378	Dhcr7	Mus musculus 7-dehydrocholesterol reductase (Dhcr7), mRNA [NM_007856]
A_55_P2068154	-0,44	-4,93	0,0139	Anapc15	Mus musculus anaphase promoting complex C subunit 15 (Anapc15), transcript variant 3, mRNA [NM_027532]

A_65_P10433	-0,44	-4,65	0,0170	Rpp14	Mus musculus ribonuclease P 14 subunit (Rpp14), mRNA [NM_025938]
A_66_P123787	-0,44	-6,13	0,0065	Lars2	Mus musculus leucyl-tRNA synthetase, mitochondrial (Lars2), mRNA [NM_153168]
A_55_P1965846	-0,44	-3,56	0,0450	Sp2	Mus musculus Sp2 transcription factor (Sp2), transcript variant 1, mRNA [NM_030220]
A_51_P345747	-0,44	-4,54	0,0187	E130309D02 Rik	Mus musculus RIKEN cDNA E130309D02 gene (E130309D02Rik), mRNA [NM_172726]
A_51_P419959	-0,44	-3,49	0,0477	Eaf1	Mus musculus ELL associated factor 1 (Eaf1), mRNA [NM_028932]
A_55_P2041843	-0,44	-3,54	0,0457	Nde1	Mus musculus nuclear distribution gene E homolog 1 (A nidulans) (Nde1), transcript variant b, mRNA [NM_001114085]
A_55_P1983988	-0,44	-5,40	0,0101	Enox2	Mus musculus ecto-NOX disulfide-thiol exchanger 2 (Enox2), transcript variant 1, mRNA [NM_001271447]
A_52_P581440	-0,44	-3,53	0,0460	Wasf2	Mus musculus WAS protein family, member 2 (Wasf2), mRNA [NM_153423]
A_51_P211934	-0,44	-5,36	0,0103	Larp7	Mus musculus La ribonucleoprotein domain family, member 7 (Larp7), mRNA [NM_138593]
A_55_P2114148	-0,44	-3,78	0,0366	Ddx46	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 46 (Ddx46), mRNA [NM_001282055]
A_52_P271155	-0,45	-4,62	0,0175	Mtpap	Mus musculus mitochondrial poly(A) polymerase (Mtpap), mRNA [NM_026157]
A_55_P2095909	-0,45	-3,63	0,0419	Lamtor3	Mus musculus late endosomal/lysosomal adaptor, MAPK and MTOR activator 3 (Lamtor3), mRNA [NM_019920]
A_55_P2046478	-0,45	-4,42	0,0204	Zfp81	Mus musculus zinc finger protein 81 (Zfp81), mRNA [NM_207541]
A_51_P486091	-0,45	-4,55	0,0185	Ift52	Mus musculus intraflagellar transport 52 (Ift52), mRNA [NM_172150]
A_55_P2175550	-0,45	-3,78	0,0365	Atf2	Mus musculus activating transcription factor 2 (Atf2), transcript variant 1, mRNA [NM_001025093]
A_66_P102395	-0,45	-3,46	0,0495	Elac2	Mus musculus ELAC2 mRNA, complete cds. [AF308696]
A_51_P408561	-0,45	-4,44	0,0201	Oard1	Mus musculus O-acyl-ADP-ribose deacylase 1 (Oard1), transcript variant 2, mRNA [NM_207219]
A_66_P109049	-0,45	-3,58	0,0438	Brd9	Mus musculus bromodomain containing 9 (Brd9), mRNA [NM_001024508]
A_51_P149699	-0,45	-3,66	0,0410	Leprel2	Mus musculus leprecan-like 2 (Leprel2), mRNA [NM_013534]
A_52_P194680	-0,45	-4,30	0,0229	Zranb1	zinc finger, RAN-binding domain containing 1 [Source:MGI Symbol;Acc:MGI:106441] [ENSMUST00000106157]
A_51_P351394	-0,45	-4,70	0,0164	Vps45	Mus musculus vacuolar protein sorting 45 (yeast) (Vps45), mRNA [NM_013841]
A_51_P350403	-0,45	-3,71	0,0389	Exoc4	Mus musculus exocyst complex component 4 (Exoc4), mRNA [NM_009148]
A_51_P326994	-0,45	-3,52	0,0469	Calhm2	Mus musculus calcium homeostasis modulator 2 (Calhm2), mRNA [NM_133746]
A_52_P537566	-0,45	-4,56	0,0184	Cenpt	Mus musculus centromere protein T (Cenpt), mRNA [NM_177150]
A_55_P1989594	-0,45	-3,73	0,0380	Mynn	Mus musculus myoneurin (Mynn), transcript variant 1, mRNA [NM_030557]
A_55_P2161640	-0,45	-3,79	0,0361	Slc38a1	Mus musculus solute carrier family 38, member 1 (Slc38a1), transcript variant 1, mRNA [NM_134086]
A_55_P1980883	-0,45	-4,52	0,0190	Ephb6	Mus musculus Eph receptor B6 (Ephb6), transcript variant 1, mRNA [NM_001146351]
A_51_P275123	-0,45	-3,62	0,0422	Psd3	Mus musculus pleckstrin and Sec7 domain containing 3 (Psd3), transcript variant 2, mRNA [NM_177698]
A_55_P1966878	-0,45	-3,96	0,0308	Rnaseh2a	Mus musculus ribonuclease H2, large subunit (Rnaseh2a), mRNA [NM_027187]
A_52_P639774	-0,45	-3,85	0,0343	Gart	phosphoribosylglycinamide formyltransferase [Source:MGI Symbol;Acc:MGI:95654] [ENSMUST00000120450]
A_55_P2104617	-0,45	-3,65	0,0412	Kctd5	Mus musculus potassium channel tetramerisation domain containing 5 (Kctd5), mRNA [NM_027008]
A_55_P1957227	-0,45	-5,08	0,0124	Las1l	Mus musculus LAS1-like (S. cerevisiae) (Las1l), mRNA [NM_152822]
A_55_P2050652	-0,45	-3,47	0,0490	Ikbkg	Mus musculus inhibitor of kappaB kinase gamma (Ikbkg), transcript variant 3, mRNA [NM_001136067]
A_55_P2031043	-0,45	-4,24	0,0238	Stat5b	Mus musculus signal transducer and activator of transcription 5B (Stat5b), transcript variant 1, mRNA [NM_011489]
A_51_P270899	-0,45	-4,49	0,0194	Zfp61	Mus musculus zinc finger protein 61 (Zfp61), mRNA [NM_009561]
A_65_P16688	-0,45	-4,17	0,0253	Taok2	Mus musculus TAO kinase 2 (Taok2), transcript variant 2, mRNA [NM_001163775]
A_52_P545643	-0,45	-3,60	0,0433	Tmem263	Mus musculus transmembrane protein 263 (Tmem263), mRNA [NM_001013028]
A_51_P392244	-0,45	-5,94	0,0072	Tbcd	Mus musculus tubulin-specific chaperone d (Tbcd), mRNA [NM_029878]
A_55_P2110355	-0,45	-4,24	0,0239	Zfp637	Mus musculus zinc finger protein 637 (Zfp637), mRNA [NM_177684]
A_55_P2047106	-0,45	-3,74	0,0380	Rel2	Mus musculus RELT-like 2 (Rel2), mRNA [NM_153793]
A_52_P550185	-0,45	-4,91	0,0141	Urm1	Mus musculus ubiquitin related modifier 1 homolog (S. cerevisiae) (Urm1), mRNA [NM_026615]
A_51_P338776	-0,45	-6,01	0,0070	Dnajc8	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 8 (Dnajc8), mRNA [NM_172400]
A_66_P134040	-0,45	-4,59	0,0178	Vps25	Mus musculus vacuolar protein sorting 25 (yeast) (Vps25), transcript variant 3, mRNA [NM_001284412]
A_55_P2154228	-0,45	-3,95	0,0311	Ncapd3	Mus musculus non-SMC condensin II complex, subunit D3 (Ncapd3), mRNA [NM_178113]
A_52_P69043	-0,45	-3,71	0,0389	Nkap	Mus musculus NFKB activating protein (Nkap), mRNA [NM_025937]
A_55_P2148082	-0,45	-4,56	0,0183	Larp7	Mus musculus La ribonucleoprotein domain family, member 7 (Larp7), mRNA [NM_138593]
A_55_P1988708	-0,45	-5,20	0,0113	Gstz1	Mus musculus glutathione transferase zeta 1 (maleylacetate isomerase) (Gstz1), transcript variant 2, mRNA [NM_001252555]

A_55_P2043108	-0,45	-3,45	0,0499	Exoc4	Mus musculus exocyst complex component 4 (Exoc4), mRNA [NM_009148]
A_55_P2052862	-0,45	-3,64	0,0413	Fam73a	Mus musculus family with sequence similarity 73, member A (Fam73a), transcript variant 1, mRNA [NM_174868]
A_51_P337543	-0,45	-3,80	0,0360	Gfce	Mus musculus glucuronyl C5-epimerase (Gfce), mRNA [NM_033320]
A_55_P2015585	-0,45	-4,05	0,0283	Zcchc24	Mus musculus zinc finger, CCHC domain containing 24 (Zcchc24), mRNA [NM_001101433]
A_51_P201904	-0,45	-4,12	0,0265	Ndufb5	Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5 (Ndufb5), mRNA [NM_025316]
A_52_P402319	-0,45	-4,60	0,0178	Med20	Mus musculus mediator complex subunit 20 (Med20), mRNA [NM_020048]
A_55_P1956097	-0,45	-4,94	0,0139	Cyb5d2	Mus musculus cytochrome b5 domain containing 2 (Cyb5d2), mRNA [NM_001024926]
A_55_P2067777	-0,45	-3,65	0,0412	2410089E03 Rik	Mus musculus RIKEN cDNA 2410089E03 gene (2410089E03Rik), mRNA [NM_001162906]
A_55_P2048840	-0,45	-4,40	0,0207	Ppil2	Mus musculus peptidylprolyl isomerase (cyclophilin)-like 2 (Ppil2), transcript variant 3, mRNA [NM_001252445]
A_55_P1962641	-0,45	-3,61	0,0424	Rnf26	Mus musculus ring finger protein 26 (Rnf26), mRNA [NM_153762]
A_55_P2179726	-0,45	-5,21	0,0112	Mettl18	Mus musculus methyltransferase like 18 (Mettl18), mRNA [NM_027279]
A_55_P2157610	-0,45	-5,24	0,0110	Rpsd3	Mus musculus RNA pseudouridylate synthase domain containing 3 (Rpsd3), mRNA [NM_001033204]
A_55_P2036863	-0,45	-4,39	0,0210	Rabl2	Mus musculus RAB, member RAS oncogene family-like 2 (Rabl2), mRNA [NM_026817]
A_55_P2052831	-0,45	-4,46	0,0198	0610009B22 Rik	Mus musculus RIKEN cDNA 0610009B22 gene (0610009B22Rik), mRNA [NM_025319]
A_52_P72654	-0,45	-5,87	0,0076	Slc25a17	Mus musculus solute carrier family 25 (mitochondrial carrier, peroxisomal membrane protein), member 17 (Slc25a17), mRNA [NM_011399]
A_66_P125722	-0,45	-4,22	0,0241	Cyb5a	Mus musculus cytochrome b5 type A (microsomal) (Cyb5a), mRNA [NM_025797]
A_51_P102507	-0,45	-4,08	0,0275	Vps33a	Mus musculus vacuolar protein sorting 33A (yeast) (Vps33a), mRNA [NM_029929]
A_55_P2187909	-0,45	-4,87	0,0146	4930560018 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930560018 product:unclassifiable, full insert sequence. [AK016186]
A_52_P295067	-0,45	-4,17	0,0253	Snn	Mus musculus stannin (Snn), mRNA [NM_009223]
A_55_P1999923	-0,45	-3,94	0,0313	Nyap1	Mus musculus neuronal tyrosine-phosphorylated phosphoinositide 3-kinase adaptor 1 (Nyap1), mRNA [NM_175521]
A_52_P599624	-0,46	-4,14	0,0259	Pfas	Mus musculus phosphoribosylformylglycinamide synthase (FGAR amidotransferase) (Pfas), mRNA [NM_001159519]
A_55_P2101177	-0,46	-4,28	0,0231	Ncaph2	Mus musculus non-SMC condensin II complex, subunit H2 (Ncaph2), transcript variant 3, mRNA [NM_001271601]
A_52_P56658	-0,46	-5,19	0,0114	Emc3	Mus musculus ER membrane protein complex subunit 3 (Emc3), mRNA [NM_175101]
A_52_P424826	-0,46	-5,29	0,0106	Txn14b	Mus musculus thioredoxin-like 4B (Txn14b), mRNA [NM_175646]
A_55_P2171091	-0,46	-4,46	0,0198	Sap30bp	Mus musculus SAP30 binding protein (Sap30bp), mRNA [NM_020483]
A_55_P1986441	-0,46	-4,51	0,0191	Gcdh	Mus musculus glutaryl-Coenzyme A dehydrogenase (Gcdh), transcript variant 1, mRNA [NM_008097]
A_51_P281778	-0,46	-3,96	0,0306	Igsf23	Mus musculus immunoglobulin superfamily, member 23 (Igsf23), mRNA [NM_027308]
A_52_P86928	-0,46	-3,74	0,0378	Cog2	Mus musculus component of oligomeric golgi complex 2 (Cog2), mRNA [NM_029746]
A_52_P199776	-0,46	-4,88	0,0145	Snhg7	Mus musculus small nucleolar RNA host gene 7 (Snhg7), long non-coding RNA [NR_024068]
A_51_P380514	-0,46	-4,45	0,0200	Tjap1	Mus musculus tight junction associated protein 1 (Tjap1), transcript variant 1, mRNA [NM_028751]
A_52_P110088	-0,46	-3,60	0,0431	Ndufaf3	Mus musculus NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, assembly factor 3 (Ndufaf3), mRNA [NM_023247]
A_55_P1963712	-0,46	-3,98	0,0301	Cyb5b	Mus musculus cytochrome b5 type B (Cyb5b), mRNA [NM_025558]
A_55_P2277541	-0,46	-3,76	0,0374	4921518B13 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4921518B13 product:unclassifiable, full insert sequence. [AK014916]
A_51_P110931	-0,46	-3,71	0,0390	Znrd1as	Mus musculus Znrd1 antisense (Znrd1as), mRNA [NM_029602]
A_51_P321651	-0,46	-4,42	0,0205	Fam192a	Mus musculus family with sequence similarity 192, member A (Fam192a), mRNA [NM_028221]
A_51_P299216	-0,46	-4,35	0,0216	Wdr90	Mus musculus WD repeat domain 90 (Wdr90), mRNA [NM_001163766]
A_52_P199299	-0,46	-4,10	0,0269	Urgcp	Mus musculus upregulator of cell proliferation (Urgcp), transcript variant 2, mRNA [NM_001077661]
A_52_P140356	-0,46	-4,84	0,0149	Calm3	Mus musculus calmodulin 3 (Calm3), mRNA [NM_007590]
A_51_P468418	-0,46	-3,97	0,0305	Narg2	Mus musculus NMDA receptor-regulated gene 2 (Narg2), mRNA [NM_145618]
A_51_P315673	-0,46	-3,86	0,0337	Usp11	Mus musculus ubiquitin specific peptidase 11 (Usp11), mRNA [NM_145628]
A_51_P399889	-0,46	-4,40	0,0207	Ap4b1	Mus musculus adaptor-related protein complex AP-4, beta 1 (Ap4b1), transcript variant 1, mRNA [NM_026193]
A_55_P2142146	-0,46	-3,98	0,0302	Glul	Mus musculus glutamate-ammonia ligase (glutamine synthetase) (Glul), mRNA [NM_008131]
A_52_P323830	-0,46	-3,82	0,0353	Zfp830	Mus musculus zinc finger protein 830 (Zfp830), mRNA [NM_025884]
A_51_P151897	-0,46	-4,89	0,0143	R3hcc1	Mus musculus R3H domain and coiled-coil containing 1 (R3hcc1), mRNA [NM_001146012]
A_52_P484838	-0,46	-3,83	0,0346	Rfxank	Mus musculus regulatory factor X-associated ankyrin-containing protein (Rfxank), transcript variant 1, mRNA [NM_011266]



A_51_P201137	-0,46	-4,40	0,0208	Lbr	Mus musculus lamin B receptor (Lbr), mRNA [NM_133815]
A_55_P2176530	-0,46	-5,19	0,0114	1110057K04 Rik	Mus musculus RIKEN cDNA 1110057K04 gene (1110057K04Rik), transcript variant 3, mRNA [NM_001167768]
A_55_P2058864	-0,46	-3,60	0,0428	Mvk	Mus musculus mevalonate kinase (Mvk), mRNA [NM_023556]
A_55_P2024595	-0,46	-3,49	0,0479	Atxn71	Mus musculus ataxin 7-like 1 (Atxn71), transcript variant 1, mRNA [NM_001033436]
A_65_P01247	-0,46	-4,32	0,0224	Hjurp	Mus musculus Holliday junction recognition protein (Hjurp), mRNA [NM_198652]
A_51_P136699	-0,46	-5,26	0,0109	Ttc7b	Mus musculus tetratricopeptide repeat domain 7B (Ttc7b), mRNA [NM_001033213]
A_51_P196526	-0,46	-3,91	0,0323	Bscl2	Mus musculus Bernardinelli-Seip congenital lipodystrophy 2 homolog (human) (Bscl2), transcript variant 2, mRNA [NM_008144]
A_52_P299358	-0,46	-3,64	0,0413	Lclat1	Mus musculus lysocardiolipin acyltransferase 1 (Lclat1), transcript variant 1, mRNA [NM_001081071]
A_51_P214306	-0,46	-3,60	0,0431	Haus4	Mus musculus HAUS augmin-like complex, subunit 4 (Haus4), mRNA [NM_145462]
A_55_P2018492	-0,46	-5,13	0,0120	Pgap3	Mus musculus post-GPI attachment to proteins 3 (Pgap3), mRNA [NM_001033537]
A_52_P520564	-0,46	-3,99	0,0297	Wasl	Mus musculus Wiskott-Aldrich syndrome-like (human) (Wasl), transcript variant 1, mRNA [NM_028459]
A_51_P314019	-0,46	-5,09	0,0124	Banf1	Mus musculus barrier to autointegration factor 1 (Banf1), transcript variant 2, mRNA [NM_001038231]
A_55_P1957957	-0,46	-5,18	0,0115	Dhx34	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 34 (Dhx34), transcript variant 1, mRNA [NM_001285931]
A_55_P1991931	-0,46	-3,88	0,0331	Nosip	Mus musculus nitric oxide synthase interacting protein (Nosip), transcript variant 1, mRNA [NM_025533]
A_55_P1971872	-0,46	-3,79	0,0362	Rbm45	Mus musculus brain CRL-1443 BC3H1 cDNA, RIKEN full-length enriched library, clone:G430095G15 product:hypothetical RNA-binding region RNP-1 (RNA recognition motif) containing protein, full insert sequence. [AK090084]
A_51_P295708	-0,46	-4,67	0,0168	Ints1	Mus musculus integrator complex subunit 1 (Ints1), mRNA [NM_026748]
A_55_P2112330	-0,46	-4,15	0,0258	Anapc7	Mus musculus anaphase promoting complex subunit 7 (Anapc7), mRNA [NM_019805]
A_55_P2011659	-0,46	-4,06	0,0279	Anapc5	Mus musculus anaphase-promoting complex subunit 5 (Anapc5), transcript variant 1, mRNA [NM_021505]
A_52_P287992	-0,46	-3,64	0,0416	Tbcel	Mus musculus tubulin folding cofactor E-like (Tbcel), mRNA [NM_173038]
A_51_P117618	-0,46	-5,33	0,0105	Ethe1	Mus musculus ethylmalonic encephalopathy 1 (Ethe1), mRNA [NM_023154]
A_52_P552017	-0,46	-4,78	0,0155	Zfyve20	Mus musculus zinc finger, FYVE domain containing 20 (Zfyve20), mRNA [NM_030081]
A_55_P1972634	-0,46	-4,90	0,0143	Mtcp1	Mus musculus mature T cell proliferation 1 (Mtcp1), transcript variant 2, mRNA [NM_010839]
A_52_P391718	-0,46	-4,32	0,0223	Rpl22	Mus musculus ribosomal protein L22 (Rpl22), transcript variant 1, mRNA [NM_009079]
A_52_P445828	-0,46	-4,23	0,0240	Abcf2	Mus musculus ATP-binding cassette, sub-family F (GCN20), member 2 (Abcf2), transcript variant 1, mRNA [NM_013853]
A_55_P1988728	-0,46	-3,55	0,0451	Fbxl19	Mus musculus F-box and leucine-rich repeat protein 19 (Fbxl19), mRNA [NM_172748]
A_51_P116487	-0,47	-4,99	0,0133	Lsm4	Mus musculus LSM4 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm4), mRNA [NM_015816]
A_51_P144926	-0,47	-4,65	0,0170	Cops8	Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 8 (Arabidopsis thaliana) (Cops8), mRNA [NM_133805]
A_55_P2115176	-0,47	-4,11	0,0267	Pdhx	Mus musculus pyruvate dehydrogenase complex, component X (Pdhx), mRNA [NM_175094]
A_55_P1991440	-0,47	-5,67	0,0086	Zscan21	Mus musculus zinc finger and SCAN domain containing 21 (Zscan21), transcript variant 1, mRNA [NM_011757]
A_55_P2074694	-0,47	-3,91	0,0322	Ephx4	Mus musculus epoxide hydrolase 4 (Ephx4), mRNA [NM_001001804]
A_55_P2090557	-0,47	-3,67	0,0404	Lrrc75a	Mus musculus leucine rich repeat containing 75A (Lrrc75a), mRNA [NM_198861]
A_55_P2068148	-0,47	-3,86	0,0337	Pias1	Mus musculus protein inhibitor of activated STAT 1 (Pias1), mRNA [NM_019663]
A_55_P1991920	-0,47	-4,09	0,0272	Dhx32	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 32 (Dhx32), transcript variant 1, mRNA [NM_001286030]
A_55_P2110235	-0,47	-5,17	0,0116	Trip12	Mus musculus thyroid hormone receptor interactor 12 (Trip12), mRNA [NM_133975]
A_55_P2053444	-0,47	-5,07	0,0125	Map4	Mus musculus microtubule-associated protein 4 (Map4), transcript variant 1, mRNA [NM_001205330]
A_55_P2160322	-0,47	-4,72	0,0162	Anapc15	Mus musculus anaphase promoting complex C subunit 15 (Anapc15), transcript variant 3, mRNA [NM_027532]
A_55_P2091631	-0,47	-4,04	0,0283	Coa4	Mus musculus cytochrome c oxidase assembly factor 4 (Coa4), mRNA [NM_183270]
A_52_P370473	-0,47	-5,51	0,0093	Msl1	male-specific lethal 1 homolog (Drosophila) [Source:MGI Symbol;Acc:MGI:1921276] [JENSIMUST00000107485]
A_55_P1979217	-0,47	-4,42	0,0204	Abtb1	Mus musculus ankyrin repeat and BTB (POZ) domain containing 1 (Abtb1), mRNA [NM_030251]
A_55_P1987396	-0,47	-3,52	0,0467	Tbl1xr1	Mus musculus transducin (beta)-like 1X-linked receptor 1 (Tbl1xr1), mRNA [NM_030732]
A_51_P130079	-0,47	-4,78	0,0155	Lrmp	Mus musculus lymphoid-restricted membrane protein (Lrmp), transcript variant 1, mRNA [NM_008511]
A_66_P104390	-0,47	-4,47	0,0198	Arl3	Mus musculus ADP-ribosylation factor-like 3 (Arl3), mRNA [NM_019718]
A_66_P100021	-0,47	-4,16	0,0254	Ncaph2	Mus musculus non-SMC condensin II complex, subunit H2 (Ncaph2), transcript variant 3, mRNA [NM_001271601]
A_52_P189132	-0,47	-4,52	0,0189	Thap1	Mus musculus THAP domain containing, apoptosis associated protein 1 (Thap1), mRNA [NM_199042]
A_52_P81783	-0,47	-3,99	0,0297	Gspt1	Mus musculus G1 to S phase transition 1 (Gspt1), transcript variant 1, mRNA [NM_146066]
A_55_P2117630	-0,47	-4,50	0,0193	Snrnp25	Mus musculus small nuclear ribonucleoprotein 25 (U11/U12) (Snrnp25), mRNA [NM_030093]

A_55_P2033660	-0,47	-5,05	0,0127	Crls1	Mus musculus cardiolipin synthase 1 (Crls1), transcript variant 1, mRNA [NM_001024385]
A_51_P413916	-0,47	-5,25	0,0109	Pgrmc2	Mus musculus progesterone receptor membrane component 2 (Pgrmc2), mRNA [NM_027558]
A_55_P2007663	-0,47	-3,58	0,0437	Alkbh8	Mus musculus alkb, alkylation repair homolog 8 (E. coli) (Alkbh8), mRNA [NM_026303]
A_51_P279183	-0,47	-5,19	0,0114	Dak	Mus musculus dihydroxyacetone kinase 2 homolog (yeast) (Dak), mRNA [NM_145496]
A_52_P259558	-0,47	-4,59	0,0179	Ogfod1	Mus musculus 2-oxoglutarate and iron-dependent oxygenase domain containing 1 (Ogfod1), transcript variant 1, mRNA [NM_177767]
A_51_P319379	-0,47	-4,63	0,0173	Tmx4	Mus musculus thioredoxin-related transmembrane protein 4 (Tmx4), mRNA [NM_029148]
A_52_P663742	-0,47	-3,88	0,0332	Ganc	Mus musculus glucosidase, alpha; neutral C (Ganc), mRNA [NM_172672]
A_66_P102299	-0,47	-3,97	0,0302	Ascc1	Mus musculus activating signal cointegrator 1 complex subunit 1 (Ascc1), transcript variant 2, mRNA [NM_026937]
A_52_P539161	-0,47	-5,14	0,0119	Rdh11	Mus musculus retinol dehydrogenase 11 (Rdh11), mRNA [NM_021557]
A_52_P430274	-0,47	-4,43	0,0204	Heatr2	Mus musculus HEAT repeat containing 2 (Heatr2), mRNA [NM_001081265]
A_52_P141136	-0,47	-4,35	0,0217	Fggy	Mus musculus FGGY carbohydrate kinase domain containing (Fggy), transcript variant 1, mRNA [NM_001113412]
A_51_P378825	-0,47	-4,91	0,0141	Actr8	Mus musculus ARP8 actin-related protein 8 (Actr8), mRNA [NM_027493]
A_52_P658437	-0,47	-3,71	0,0389	Espl1	Mus musculus extra spindle pole bodies 1 (S. cerevisiae) (Espl1), mRNA [NM_001014976]
A_55_P2056393	-0,47	-5,33	0,0105	Stk11ip	Mus musculus serine/threonine kinase 11 interacting protein (Stk11ip), mRNA [NM_027886]
A_55_P2075268	-0,47	-4,93	0,0139	Tmem216	Mus musculus transmembrane protein 216 (Tmem216), transcript variant 2, mRNA [NM_026798]
A_51_P137168	-0,47	-4,77	0,0156	Smarcal1	Mus musculus HepA-related protein Harp mRNA, complete cds. [AF088884]
A_55_P2168692	-0,47	-4,10	0,0270	Cep131	Mus musculus centrosomal protein 131 (Cep131), mRNA [NM_009734]
A_55_P1973462	-0,47	-5,42	0,0099	Pex11b	Mus musculus peroxisomal biogenesis factor 11 beta (Pex11b), transcript variant 1, mRNA [NM_011069]
A_66_P111877	-0,47	-4,85	0,0148	Snx13	Mus musculus sorting nexin 13 (Snx13), mRNA [NM_001014973]
A_55_P2063163	-0,47	-5,65	0,0086	Agk	Mus musculus acylglycerol kinase (Agk), mRNA [NM_023538]
A_52_P641849	-0,47	-3,60	0,0429	Khynyn	Mus musculus KH and NYN domain containing (Khynyn), mRNA [NM_027143]
A_51_P129720	-0,47	-3,47	0,0489	Hectd3	Mus musculus HECT domain containing 3 (Hectd3), mRNA [NM_175244]
A_51_P130666	-0,47	-4,10	0,0268	Adk	Mus musculus adenosine kinase (Adk), transcript variant 1, mRNA [NM_134079]
A_51_P473888	-0,47	-5,87	0,0076	Il6st	Mus musculus interleukin 6 signal transducer (Il6st), mRNA [NM_010560]
A_51_P466148	-0,47	-5,72	0,0084	Bckdha	Mus musculus branched chain ketoacid dehydrogenase E1, alpha polypeptide (Bckdha), mRNA [NM_007533]
A_51_P503542	-0,47	-4,88	0,0145	Zfp414	Mus musculus zinc finger protein 414 (Zfp414), transcript variant 1, mRNA [NM_026712]
A_51_P300655	-0,48	-4,80	0,0153	Tbccd1	Mus musculus TBCC domain containing 1 (Tbccd1), mRNA [NM_001081368]
A_55_P2008889	-0,48	-3,95	0,0310	Tmsb15b1	Mus musculus thymosin beta 15b1 (Tmsb15b1), mRNA [NM_001081983]
A_52_P429749	-0,48	-3,89	0,0326	Tmem115	Mus musculus transmembrane protein 115 (Tmem115), mRNA [NM_019704]
A_51_P339200	-0,48	-3,62	0,0422	Abhd16a	Mus musculus abhydrolase domain containing 16A (Abhd16a), mRNA [NM_178592]
A_52_P455089	-0,48	-3,51	0,0470	Eif3c	eukaryotic translation initiation factor 3, subunit C [Source:MGI Symbol;Acc:MGI:1926966] [ENSMUST0000032992]
A_55_P2085616	-0,48	-5,34	0,0105	Nsa2	Mus musculus NSA2 ribosome biogenesis homolog (S. cerevisiae) (Nsa2), mRNA [NM_021552]
A_52_P635271	-0,48	-3,56	0,0446	Btbd6	Mus musculus BTB (POZ) domain containing 6 (Btbd6), transcript variant 1, mRNA [NM_201646]
A_55_P1953301	-0,48	-3,61	0,0427	Sord	Mus musculus sorbitol dehydrogenase (Sord), mRNA [NM_146126]
A_51_P325254	-0,48	-4,08	0,0275	1700052N19 Rik	RIKEN cDNA 1700052N19 gene [Source:MGI Symbol;Acc:MGI:1920669] [ENSMUST00000131636]
A_55_P2085460	-0,48	-3,48	0,0486	5530601H04 Rik	Mus musculus RIKEN cDNA 5530601H04 gene (5530601H04Rik), long non-coding RNA [NR_015467]
A_55_P1953157	-0,48	-5,81	0,0079	Mett18	Mus musculus methyltransferase like 18 (Mett18), mRNA [NM_027279]
A_55_P2050807	-0,48	-5,00	0,0132	Mtg2	Mus musculus mitochondrial ribosome associated GTPase 2 (Mtg2), transcript variant 1, mRNA [NM_181424]
A_51_P462862	-0,48	-3,99	0,0298	9430015G10 Rik	Mus musculus RIKEN cDNA 9430015G10 gene (9430015G10Rik), transcript variant 2, mRNA [NM_145557]
A_51_P364786	-0,48	-3,94	0,0313	U2af1	Mus musculus U2 small nuclear ribonucleoprotein auxiliary factor (U2AF) 1 (U2af1), transcript variant 1, mRNA [NM_024187]
A_52_P49406	-0,48	-5,01	0,0130	Pde12	Mus musculus phosphodiesterase 12 (Pde12), mRNA [NM_178668]
A_55_P2135271	-0,48	-4,18	0,0251	Zfp358	Mus musculus zinc finger protein 358 (Zfp358), mRNA [NM_080461]
A_52_P245415	-0,48	-4,03	0,0286	AW554918	Mus musculus expressed sequence AW554918 (AW554918), mRNA [NM_001033532]
A_51_P340816	-0,48	-3,66	0,0407	Ipp	Mus musculus IAP promoted placental gene (Ipp), mRNA [NM_008389]
A_51_P466829	-0,48	-3,49	0,0477	Fam109a	Mus musculus family with sequence similarity 109, member A (Fam109a), mRNA [NM_175474]
A_51_P129866	-0,48	-4,64	0,0171	Atxn1l	Mus musculus ataxin 1-like (Atxn1l), mRNA [NM_001080930]
A_55_P2031403	-0,48	-4,57	0,0183	Smim24	Mus musculus 11 days pregnant adult female ovary and uterus cDNA, RIKEN full-length enriched library, clone:5033427P15



					product:weakly similar to HSPC323 (FRAGMENT) [Homo sapiens], full insert sequence. [AK030337]
A_51_P136845	-0.48	-5.27	0,0108	Usp19	Mus musculus ubiquitin specific peptidase 19 (Usp19), transcript variant 1, mRNA [NM_027804]
A_55_P2040863	-0.48	-3.78	0,0365	Cnn3	Mus musculus calponin 3, acidic (Cnn3), mRNA [NM_028044]
A_51_P499864	-0.48	-5.41	0,0100	Tubg1	Mus musculus tubulin, gamma 1 (Tubg1), mRNA [NM_134024]
A_51_P442053	-0.48	-4.79	0,0155	Ptdss1	Mus musculus phosphatidylserine synthase 1 (Ptdss1), mRNA [NM_008959]
A_51_P167374	-0.48	-4.52	0,0189	Gpatch1	Mus musculus G patch domain containing 1 (Gpatch1), mRNA [NM_026181]
A_52_P229959	-0.48	-4.32	0,0224	38961	Mus musculus septin 6 (Sept6), transcript variant 2, mRNA [NM_019942]
A_51_P406334	-0.48	-5.10	0,0122	Dnlz	Mus musculus DNL-type zinc finger (Dnlz), transcript variant 1, mRNA [NM_026828]
A_55_P1980311	-0.48	-5.32	0,0106	Pcbp2	Mus musculus poly(rC) binding protein 2 (Pcbp2), transcript variant 1, mRNA [NM_001103165]
A_55_P2085335	-0.48	-3.75	0,0377	Mia	Mus musculus melanoma inhibitory activity (Mia), mRNA [NM_019394]
A_55_P2094964	-0.48	-4.63	0,0173	Gm7931	PREDICTED: Mus musculus predicted pseudogene 7931 (Gm7931), mRNA [XM_006504239]
A_66_P100780	-0.48	-3.45	0,0498	Katnbl1	Mus musculus katanin p80 subunit B like 1 (Katnbl1), mRNA [NM_024254]
A_55_P2108067	-0.48	-5.21	0,0113	Dgcr8	Mus musculus DiGeorge syndrome critical region gene 8 (Dgcr8), mRNA [NM_033324]
A_52_P385206	-0.48	-3.46	0,0496	Harbi1	Mus musculus harbinger transposase derived 1 (Harbi1), mRNA [NM_178724]
A_55_P2099526	-0.48	-4.83	0,0149	H2afv	Mus musculus H2A histone family, member V (H2afv), mRNA [NM_029938]
A_52_P354123	-0.48	-3.72	0,0388	Rheb1	Mus musculus Ras homolog enriched in brain like 1 (Rheb1), mRNA [NM_026967]
A_51_P107433	-0.48	-6.32	0,0059	Mrpl34	Mus musculus mitochondrial ribosomal protein L34 (Mrpl34), mRNA [NM_053162]
A_52_P105840	-0.48	-3.52	0,0467	Fnbp1	Mus musculus formin binding protein 1 (Fnbp1), transcript variant 1, mRNA [NM_001038700]
A_55_P2417434	-0.48	-3.58	0,0438	E130215H24 Rik	Mus musculus 0 day neonate eyeball cDNA, RIKEN full-length enriched library, clone:E130215H24 product:unclassifiable, full insert sequence. [AK160355]
A_55_P2066897	-0.48	-3.50	0,0473	A230045G11 Rik	PREDICTED: Mus musculus RIKEN cDNA A230045G11 gene (A230045G11Rik), misc_RNA [XR_385132]
A_52_P13730	-0.48	-5.11	0,0122	Cbx2	Mus musculus chromobox 2 (Cbx2), mRNA [NM_007623]
A_66_P109595	-0.48	-4.29	0,0229	Ube4b	Mus musculus ubiquitination factor E4B (Ube4b), mRNA [NM_022022]
A_51_P456366	-0.49	-3.56	0,0448	Pard6a	Mus musculus par-6 family cell polarity regulator alpha (Pard6a), transcript variant 3, mRNA [NM_001047436]
A_52_P599238	-0.49	-4.49	0,0194	Rspry1	Mus musculus ring finger and SPRY domain containing 1 (Rspry1), mRNA [NM_026274]
A_55_P2097126	-0.49	-4.87	0,0146	Cnep1r1	Mus musculus CTD nuclear envelope phosphatase 1 regulatory subunit 1 (Cnep1r1), mRNA [NM_029074]
A_55_P2061110	-0.49	-4.07	0,0277	Snapin	Mus musculus SNAP-associated protein (Snapin), mRNA [NM_133854]
A_51_P417858	-0.49	-4.94	0,0139	Zfp825	Mus musculus zinc finger protein 825 (Zfp825), mRNA [NM_146231]
A_55_P2073163	-0.49	-4.06	0,0278	Manbal	Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430022J01 product:unclassifiable, full insert sequence. [AK079707]
A_55_P2001123	-0.49	-3.82	0,0350	2210404009 Rik	Mus musculus RIKEN cDNA 2210404009 gene (2210404009Rik), mRNA [NM_001256493]
A_66_P121474	-0.49	-4.71	0,0162	Chmp6	Mus musculus charged multivesicular body protein 6 (Chmp6), mRNA [NM_001085498]
A_52_P151278	-0.49	-3.62	0,0421	Lrch4	Mus musculus leucine-rich repeats and calponin homology (CH) domain containing 4 (Lrch4), transcript variant 1, mRNA [NM_146164]
A_52_P137829	-0.49	-3.91	0,0321	Pdpr	pyruvate dehydrogenase phosphatase regulatory subunit [Source:MGI Symbol;Acc:MGI:2442188] [ENSMUST00000039333]
A_55_P2123421	-0.49	-4.22	0,0243	Dnal4	Mus musculus dynein, axonemal, light chain 4 (Dnal4), mRNA [NM_017470]
A_65_P15340	-0.49	-4.72	0,0162	Zfp251	Mus musculus zinc finger protein 251 (Zfp251), mRNA [NM_001007568]
A_52_P338110	-0.49	-3.85	0,0342	Chmp1b	Mus musculus charged multivesicular body protein 1B (Chmp1b), mRNA [NM_024190]
A_55_P2016976	-0.49	-4.23	0,0239	A530054K11 Rik	Mus musculus RIKEN cDNA A530054K11 gene (A530054K11Rik), mRNA [NM_183146]
A_51_P154534	-0.49	-4.55	0,0186	Bloc1s5	Mus musculus biogenesis of lysosomal organelles complex-1, subunit 5, mutated (Bloc1s5), mRNA [NM_139063]
A_55_P1978061	-0.49	-4.05	0,0281	Hnrnpa3	Mus musculus heterogeneous nuclear ribonucleoprotein A3 (Hnrnpa3), transcript variant b, mRNA [NM_146130]
A_51_P118223	-0.49	-4.52	0,0190	Gm1943	Mus musculus predicted gene 1943 (Gm1943), non-coding RNA [NR_002928]
A_55_P2055087	-0.49	-4.92	0,0141	Prkar2b	Mus musculus protein kinase, cAMP dependent regulatory, type II beta (Prkar2b), mRNA [NM_011158]
A_55_P2031442	-0.49	-5.27	0,0108	Pithd1	Mus musculus PITH (C-terminal proteasome-interacting domain of thioredoxin-like) domain containing 1 (Pithd1), mRNA [NM_025411]
A_55_P2110215	-0.49	-3.49	0,0477	Ckap5	Mus musculus cytoskeleton associated protein 5 (Ckap5), transcript variant 1, mRNA [NM_001165989]
A_55_P2089080	-0.49	-4.27	0,0233	Ssbp2	Mus musculus single-stranded DNA binding protein 2 (Ssbp2), transcript variant 2, mRNA [NM_024272]
A_51_P185509	-0.49	-3.68	0,0401	Mapre1	Mus musculus microtubule-associated protein, RP/EB family, member 1 (Mapre1), mRNA [NM_007896]
A_55_P2155499	-0.49	-4.07	0,0277	Tmem9	Mus musculus transmembrane protein 9 (Tmem9), transcript variant 1, mRNA [NM_001160145]

A_55_P2081178	-0,49	-4,28	0,0231	Msl3l2	Mus musculus male-specific lethal 3-like 2 (Drosophila) (Msl3l2), mRNA [NM_001163833]
A_52_P442676	-0,49	-5,58	0,0090	Cux1	Mus musculus cut-like homeobox 1 (Cux1), transcript variant 2, mRNA [NM_198602]
A_55_P2096599	-0,49	-4,16	0,0254	Tsc22d4	Mus musculus TSC22 domain family, member 4 (Tsc22d4), transcript variant 2, mRNA [NM_023910]
A_51_P370252	-0,49	-5,78	0,0081	Capn10	Mus musculus calpain 10 (Capn10), mRNA [NM_011796]
A_55_P1973178	-0,49	-4,49	0,0195	Haus5	Mus musculus HAUS augmin-like complex, subunit 5 (Haus5), mRNA [NM_027999]
A_51_P191586	-0,49	-4,54	0,0186	Arpc1a	Mus musculus actin related protein 2/3 complex, subunit 1A (Arpc1a), mRNA [NM_019767]
A_55_P2144597	-0,49	-5,35	0,0104	9030025P20 Rik	Mus musculus RIKEN cDNA 9030025P20 gene (9030025P20Rik), mRNA [NM_001123370]
A_55_P2078008	-0,49	-4,45	0,0200	Ddx46	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 46 (Ddx46), mRNA [NM_001282055]
A_66_P119735	-0,49	-3,65	0,0412	BC049265	Mus musculus visual cortex cDNA, RIKEN full-length enriched library, clone:K430348G11 product:unclassifiable, full insert sequence. [AK158865]
A_51_P407675	-0,49	-4,43	0,0204	Zrsr1	Mus musculus zinc finger (CCCH type), RNA binding motif and serine/arginine rich 1 (Zrsr1), mRNA [NM_011663]
A_51_P414837	-0,49	-5,25	0,0109	Faf1	Mus musculus Fas-associated factor 1 (Faf1), mRNA [NM_007983]
A_51_P449911	-0,49	-5,32	0,0106	Cnot6	Mus musculus CCR4-NOT transcription complex, subunit 6 (Cnot6), transcript variant 2, mRNA [NM_212484]
A_51_P248381	-0,49	-3,58	0,0438	Zdhhc4	Mus musculus zinc finger, DHHC domain containing 4 (Zdhhc4), mRNA [NM_028379]
A_52_P330540	-0,49	-4,78	0,0155	Mis18a	Mus musculus MIS18 kinetochore protein homolog A (S. pombe) (Mis18a), mRNA [NM_025642]
A_51_P509140	-0,49	-5,61	0,0089	U2af14	Mus musculus U2 small nuclear RNA auxiliary factor 1-like 4 (U2af14), mRNA [NM_170760]
A_52_P49250	-0,49	-3,68	0,0399	ErbB2	Mus musculus v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian) (ErbB2), mRNA [NM_001003817]
A_51_P472888	-0,50	-6,21	0,0063	Enkd1	Mus musculus enkurin domain containing 1 (Enkd1), mRNA [NM_198299]
A_55_P2135601	-0,50	-5,28	0,0107	Polr2i	Mus musculus polymerase (RNA) II (DNA directed) polypeptide I (Polr2i), mRNA [NM_027259]
A_51_P513785	-0,50	-4,61	0,0176	Ctcf	Mus musculus CCCTC-binding factor (Ctcf), mRNA [NM_181322]
A_52_P235102	-0,50	-3,64	0,0413	Gm5595	Mus musculus predicted gene 5595 (Gm5595), mRNA [NM_001008427]
A_55_P1976690	-0,50	-3,62	0,0422	Snrnp35	Mus musculus small nuclear ribonucleoprotein 35 (U11/U12) (Snrnp35), mRNA [NM_029532]
A_55_P1955970	-0,50	-5,12	0,0121	Cbfa2t2	Mus musculus core-binding factor, runt domain, alpha subunit 2, translocated to, 2 (human) (Cbfa2t2), transcript variant 3, mRNA [NM_001285446]
A_52_P200265	-0,50	-3,87	0,0335	Mocs1	Mus musculus molybdenum cofactor synthesis 1 (Mocs1), transcript variant 1, mRNA [NM_020042]
A_55_P1996941	-0,50	-3,83	0,0346	Ube2c	Mus musculus ubiquitin-conjugating enzyme E2C (Ube2c), mRNA [NM_026785]
A_51_P325501	-0,50	-4,26	0,0235	Crip3	Mus musculus cysteine-rich protein 3 (Crip3), transcript variant TLP-B, mRNA [NM_053250]
A_66_P140976	-0,50	-3,45	0,0497	Rpl15	Mus musculus ribosomal protein L15 (Rpl15), mRNA [NM_025586]
A_55_P2143693	-0,50	-4,36	0,0215	Syt1	Mus musculus synaptotagmin-like 1 (Syt1), mRNA [NM_031393]
A_55_P2061660	-0,50	-3,98	0,0301	Atp8b2	Mus musculus ATPase, class I, type 8B, member 2 (Atp8b2), mRNA [NM_001081182]
A_55_P1977330	-0,50	-3,71	0,0388	Zbtb1	Mus musculus zinc finger and BTB domain containing 1 (Zbtb1), mRNA [NM_178744]
A_52_P161806	-0,50	-4,52	0,0190	Ovca2	Mus musculus candidate tumor suppressor in ovarian cancer 2 (Ovca2), mRNA [NM_027136]
A_55_P2206491	-0,50	-4,00	0,0296	1810062018 Rik	Mus musculus RIKEN cDNA 1810062018 gene (1810062018Rik), long non-coding RNA [NR_033571]
A_51_P314186	-0,50	-3,74	0,0380	Syne1	Mus musculus spectrin repeat containing, nuclear envelope 1 (Syne1), transcript variant 3, mRNA [NM_001079686]
A_52_P599162	-0,50	-3,97	0,0302	Tug1	Mus musculus taurine upregulated gene 1 (Tug1), transcript variant b, long non-coding RNA [NR_002322]
A_55_P1957747	-0,50	-3,81	0,0357	Inip	Mus musculus INTS3 and NABP interacting protein (Inip), mRNA [NM_001013577]
A_51_P151586	-0,50	-3,80	0,0360	Gsg2	Mus musculus germ cell-specific gene 2 (Gsg2), mRNA [NM_010353]
A_55_P2000421	-0,50	-4,55	0,0186	LOC100862466	PREDICTED: Mus musculus 40S ribosomal protein S19-like (LOC100862466), misc. RNA [XR_389864]
A_55_P1966649	-0,50	-4,81	0,0152	Glmn	Mus musculus glomulin, FKBP associated protein (Glmn), transcript variant 1, mRNA [NM_133248]
A_55_P2008136	-0,50	-4,41	0,0207	Ctr9	Mus musculus Ctr9, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) (Ctr9), mRNA [NM_009431]
A_55_P2029775	-0,50	-3,64	0,0416	Gm6712	Mus musculus 12 days embryo spinal ganglion cDNA, RIKEN full-length enriched library, clone:D130050H01 product:similar to kruppel-related zinc finger protein F80-L [Mus musculus], full insert sequence. [AK164331]
A_51_P381873	-0,50	-5,07	0,0125	Bub3	Mus musculus budding uninhibited by benzimidazoles 3 homolog (S. cerevisiae) (Bub3), mRNA [NM_009774]
A_55_P2330545	-0,50	-3,61	0,0426	Zfp81	zinc finger protein 81 [Source:MGI Symbol;Acc:MGI:1890752] [ENSMUST00000054072]
A_51_P103865	-0,50	-4,75	0,0157	Ppp1r35	Mus musculus protein phosphatase 1, regulatory subunit 35 (Ppp1r35), mRNA [NM_027242]
A_55_P2004258	-0,50	-3,80	0,0360	Gm7102	Mus musculus predicted gene 7102 (Gm7102), mRNA [NM_001177513]
A_55_P1986703	-0,50	-3,46	0,0495	1700055N04 Rik	Mus musculus RIKEN cDNA 1700055N04 gene (1700055N04Rik), mRNA [NM_028545]
A_55_P2327027	-0,50	-3,60	0,0432	Ano6	Mus musculus anoctamin 6 (Ano6), transcript variant 1, mRNA [NM_001253813]

A_55_P2061465	-0,50	-3,91	0,0323	Ppp1r21	Mus musculus protein phosphatase 1, regulatory subunit 21 (Ppp1r21), mRNA [NM_028658]
A_55_P2056493	-0,50	-3,59	0,0436	Tk1	thymidine kinase 1 [Source:MGI Symbol;Acc:MGI:98763] [ENSMUST00000153298]
A_55_P1960291	-0,50	-5,92	0,0074	Tjp3	Mus musculus tight junction protein 3 (Tjp3), transcript variant 3, mRNA [NM_013769]
A_51_P117130	-0,50	-4,27	0,0233	Naga	Mus musculus N-acetyl galactosaminidase, alpha (Naga), mRNA [NM_008669]
A_52_P656867	-0,50	-3,52	0,0469	Fam98b	Mus musculus family with sequence similarity 98, member B (Fam98b), mRNA [NM_026620]
A_55_P1986902	-0,50	-4,05	0,0283	Med23	Mus musculus mediator complex subunit 23 (Med23), transcript variant 1, mRNA [NM_001166416]
A_51_P308590	-0,50	-4,93	0,0139	Ppif	Mus musculus peptidylprolyl isomerase F (cyclophilin F) (Ppif), mRNA [NM_134084]
A_55_P2121608	-0,50	-3,74	0,0380	Sox4	SRY-box containing gene 4 [Source:MGI Symbol;Acc:MGI:98366] [ENSMUST00000067230]
A_55_P2444965	-0,50	-3,50	0,0475	Tmem245	Mus musculus transmembrane protein 245 (Tmem245), mRNA [NM_175518]
A_55_P2039637	-0,50	-3,62	0,0422	Ift88	Mus musculus intraflagellar transport 88 (Ift88), mRNA [NM_009376]
A_66_P137654	-0,50	-3,98	0,0300	Smpd2	Mus musculus sphingomyelin phosphodiesterase 2, neutral (Smpd2), mRNA [NM_009213]
A_52_P122843	-0,50	-4,02	0,0291	Gltscr1l	Mus musculus GLTSCR1-like (Gltscr1l), mRNA [NM_001100452]
A_55_P2047559	-0,50	-5,17	0,0116	Ccp110	Mus musculus centriolar coiled coil protein 110 (Ccp110), mRNA [NM_182995]
A_52_P306537	-0,50	-5,64	0,0087	Emc1	Mus musculus ER membrane protein complex subunit 1 (Emc1), transcript variant 1, mRNA [NM_146157]
A_52_P357484	-0,51	-3,80	0,0359	Nfrkb	Mus musculus nuclear factor related to kappa B binding protein (Nfrkb), mRNA [NM_172766]
A_55_P2045114	-0,51	-3,56	0,0449	Tmem242	Mus musculus transmembrane protein 242 (Tmem242), mRNA [NM_027457]
A_52_P631568	-0,51	-5,20	0,0114	Thoc6	Mus musculus THO complex 6 homolog (Drosophila) (Thoc6), mRNA [NM_001008425]
A_52_P551743	-0,51	-4,95	0,0138	Aff4	Mus musculus AF4/FMR2 family, member 4 (Aff4), mRNA [NM_033565]
A_51_P348397	-0,51	-4,09	0,0273	Hexim1	Mus musculus hexamethylene bis-acetamide inducible 1 (Hexim1), mRNA [NM_138753]
A_51_P161691	-0,51	-5,53	0,0092	Coq7	Mus musculus demethyl-Q 7 (Coq7), mRNA [NM_009940]
A_52_P439159	-0,51	-4,82	0,0150	Prkrir	Mus musculus protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor) (Prkrir), mRNA [NM_028410]
A_55_P2253746	-0,51	-5,06	0,0125	Nip7	Mus musculus nuclear import 7 homolog (S. cerevisiae) (Nip7), transcript variant 1, mRNA [NM_025391]
A_51_P292368	-0,51	-3,77	0,0369	Tmco6	Mus musculus transmembrane and coiled-coil domains 6 (Tmco6), mRNA [NM_028036]
A_52_P597860	-0,51	-3,94	0,0313	Wasf2	Mus musculus WAS protein family, member 2 (Wasf2), mRNA [NM_153423]
A_55_P2148744	-0,51	-6,46	0,0055	Gm6625	PREDICTED: Mus musculus predicted gene 6625 (Gm6625), transcript variant X1, mRNA [XM_006531543]
A_51_P386526	-0,51	-3,46	0,0496	Wbscr16	Mus musculus Williams-Beuren syndrome chromosome region 16 homolog (human) (Wbscr16), mRNA [NM_033572]
A_51_P429295	-0,51	-4,76	0,0156	Pus10	Mus musculus pseudouridylate synthase 10 (Pus10), transcript variant 3, mRNA [NM_028304]
A_55_P2014927	-0,51	-3,54	0,0457	Zfp341	Mus musculus zinc finger protein 341 (Zfp341), mRNA [NM_199304]
A_51_P206585	-0,51	-4,69	0,0165	Runx1	Mus musculus runt related transcription factor 1 (Runx1), transcript variant 4, mRNA [NM_009821]
A_55_P2057311	-0,51	-3,51	0,0471	Sox5it	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930541J03 product:hypothetical protein, full insert sequence. [AK016013]
A_55_P2118684	-0,51	-5,53	0,0092	Idh2	Mus musculus isocitrate dehydrogenase 2 (NADP+), mitochondrial (Idh2), mRNA [NM_173011]
A_52_P116628	-0,51	-3,50	0,0474	8430419L09 Rik	Mus musculus RIKEN cDNA 8430419L09 gene (8430419L09Rik), mRNA [NM_028982]
A_55_P2145982	-0,51	-3,45	0,0496	D1Ert448e	Mus musculus bone marrow macrophage cDNA, RIKEN full-length enriched library, clone:G530004B13 product:hypothetical protein, full insert sequence. [AK149623]
A_51_P165704	-0,51	-5,26	0,0109	Mcm7	Mus musculus minichromosome maintenance deficient 7 (S. cerevisiae) (Mcm7), mRNA [NM_008568]
A_51_P165165	-0,51	-5,71	0,0084	Hibadh	Mus musculus 3-hydroxyisobutyrate dehydrogenase (Hibadh), mRNA [NM_145567]
A_55_P1995503	-0,51	-4,73	0,0160	Gm5643	Mus musculus predicted gene 5643 (Gm5643), non-coding RNA [NR_002883]
A_51_P513224	-0,51	-5,38	0,0102	Cep164	Mus musculus centrosomal protein 164 (Cep164), mRNA [NM_001081373]
A_51_P270666	-0,51	-4,90	0,0143	Usp1l	Mus musculus ubiquitin specific peptidase like 1 (Usp1l), transcript variant 4, mRNA [NM_001013378]
A_52_P482203	-0,51	-5,35	0,0103	Tsen2	Mus musculus tRNA splicing endonuclease 2 homolog (S. cerevisiae) (Tsen2), mRNA [NM_199033]
A_52_P658974	-0,51	-5,60	0,0089	Gm5396	PREDICTED: Mus musculus predicted pseudogene 5396 (Gm5396), mRNA [XM_006544628]
A_51_P342652	-0,51	-3,68	0,0401	Cd79b	Mus musculus CD79B antigen (Cd79b), mRNA [NM_008339]
A_55_P1963585	-0,51	-3,63	0,0418	Mbd5	Mus musculus methyl-CpG binding domain protein 5 (Mbd5), transcript variant 1, mRNA [NM_029924]
A_66_P120484	-0,51	-5,55	0,0091	Mbtd1	Mus musculus mbt domain containing 1 (Mbtd1), mRNA [NM_134012]
A_51_P211573	-0,51	-4,77	0,0155	Wdr47	Mus musculus WD repeat domain 47 (Wdr47), mRNA [NM_181400]
A_55_P2121613	-0,51	-4,03	0,0287	Sox4	Mus musculus SRY (sex determining region Y)-box 4 (Sox4), mRNA [NM_009238]
A_55_P2408588	-0,51	-3,68	0,0401	Arntl	Mus musculus aryl hydrocarbon receptor nuclear translocator-like (Arntl), transcript variant 1, mRNA [NM_007489]

A_51_P289588	-0,51	-6,31	0,0060	Ube2e3	Mus musculus ubiquitin-conjugating enzyme E2E 3 (Ube2e3), mRNA [NM_009454]
A_52_P488612	-0,51	-4,54	0,0186	Btd9	Mus musculus BTB (POZ) domain containing 9 (Btd9), transcript variant 1, mRNA [NM_027060]
A_51_P270891	-0,51	-4,14	0,0258	1700056E22 Rik	Mus musculus RIKEN cDNA 1700056E22 gene (1700056E22Rik), mRNA [NM_028516]
A_51_P406365	-0,51	-4,29	0,0229	Maf1	Mus musculus MAF1 homolog (S. cerevisiae) (Maf1), transcript variant 2, mRNA [NM_026859]
A_51_P159352	-0,51	-3,57	0,0441	Sub1	Mus musculus SUB1 homolog (S. cerevisiae) (Sub1), mRNA [NM_011294]
A_52_P76402	-0,51	-4,13	0,0263	Ago1	Mus musculus argonaute RISC catalytic subunit 1 (Ago1), mRNA [NM_153403]
A_55_P2401084	-0,51	-7,49	0,0029	4930558N01 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930558N01 product:unclassifiable, full insert sequence. [AK016181]
A_55_P2117169	-0,51	-3,84	0,0346	Zmym1	Mus musculus zinc finger, MYM domain containing 1 (Zmym1), mRNA [NM_026670]
A_52_P214891	-0,51	-4,11	0,0267	Stx6	Mus musculus syntaxin 6 (Stx6), mRNA [NM_021433]
A_51_P121275	-0,52	-6,20	0,0063	Cenpo	Mus musculus centromere protein 0 (Cenpo), mRNA [NM_134046]
A_55_P2151143	-0,52	-4,13	0,0262	Dynlt1c	Mus musculus dynein light chain Tctex-type 1C (Dynlt1c), mRNA [NM_001166630]
A_51_P503261	-0,52	-4,74	0,0159	Lrrc8c	Mus musculus leucine rich repeat containing 8 family, member C (Lrrc8c), mRNA [NM_133897]
A_55_P2184541	-0,52	-5,62	0,0088	Cdad1	Mus musculus cytidine and dCMP deaminase domain containing 1 (Cdad1), transcript variant 2, mRNA [NM_027986]
A_52_P533779	-0,52	-6,35	0,0058	Ankrd40	Mus musculus ankyrin repeat domain 40 (Ankrd40), transcript variant 1, mRNA [NM_027799]
A_52_P28806	-0,52	-3,61	0,0427	Foxm1	Mus musculus forkhead box M1 (Foxm1), mRNA [NM_008021]
A_51_P484254	-0,52	-3,57	0,0444	Pcca	Mus musculus propionyl-Coenzyme A carboxylase, alpha polypeptide (Pcca), mRNA [NM_144844]
A_55_P1973208	-0,52	-4,28	0,0231	Tax1bp3	Mus musculus Tax1 (human T cell leukemia virus type 1) binding protein 3 (Tax1bp3), mRNA [NM_029564]
A_51_P407193	-0,52	-3,59	0,0436	Clp1	Mus musculus CLP1, cleavage and polyadenylation factor I subunit (Clp1), mRNA [NM_133840]
A_52_P229320	-0,52	-4,79	0,0155	Rptor	Mus musculus regulatory associated protein of MTOR, complex 1 (Rptor), mRNA [NM_028898]
A_51_P150430	-0,52	-4,88	0,0145	Mkrn2	Mus musculus makorin, ring finger protein, 2 (Mkrn2), mRNA [NM_023290]
A_51_P120823	-0,52	-3,59	0,0435	Olfir868	Mus musculus olfactory receptor 868 (Olfir868), mRNA [NM_146559]
A_55_P2024858	-0,52	-5,42	0,0099	Fars2	Mus musculus phenylalanine-tRNA synthetase 2 (mitochondrial) (Fars2), transcript variant 1, mRNA [NM_024274]
A_66_P134534	-0,52	-3,59	0,0434	Atl2	Mus musculus atlastin GTPase 2 (Atl2), transcript variant 1, mRNA [NM_019717]
A_55_P2046488	-0,52	-3,95	0,0309	Nbeal2	Mus musculus neurobeachin-like 2 (Nbeal2), mRNA [NM_183276]
A_55_P2042273	-0,52	-3,89	0,0328	Pbrm1	Mus musculus polybromo 1 (Pbrm1), mRNA [NM_001081251]
A_66_P115996	-0,52	-5,12	0,0121	Ccbl1	Mus musculus cysteine conjugate-beta lyase 1 (Ccbl1), mRNA [NM_172404]
A_51_P401730	-0,52	-7,20	0,0035	Vwa9	Mus musculus von Willebrand factor A domain containing 9 (Vwa9), transcript variant 1, mRNA [NM_175153]
A_52_P581435	-0,52	-6,64	0,0049	Pdha1	Mus musculus pyruvate dehydrogenase E1 alpha 1 (Pdha1), mRNA [NM_008810]
A_52_P208727	-0,52	-3,93	0,0315	Zmym4	Mus musculus zinc finger, MYM-type 4 (Zmym4), mRNA [NM_001114399]
A_51_P486610	-0,52	-4,09	0,0271	Afg3l1	Mus musculus AFG3(ATPase family gene 3)-like 1 (yeast) (Afg3l1), transcript variant 1, mRNA [NM_054070]
A_51_P269173	-0,52	-4,38	0,0212	Alg9	Mus musculus asparagine-linked glycosylation 9 (alpha 1,2 mannosyltransferase) (Alg9), transcript variant 1, mRNA [NM_133981]
A_52_P644972	-0,52	-5,53	0,0092	Mzt1	Mus musculus mitotic spindle organizing protein 1 (Mzt1), mRNA [NM_175245]
A_55_P2185757	-0,52	-3,80	0,0360	Stxbp4	syntaxin binding protein 4 [Source:MGI Symbol;Acc:MGI:1342296] [ENSIMUST00000107872]
A_65_P01065	-0,52	-5,43	0,0099	Phf14	Mus musculus PHD finger protein 14 (Phf14), transcript variant 1, mRNA [NM_001168382]
A_51_P370286	-0,52	-6,25	0,0061	Med24	Mus musculus mediator complex subunit 24 (Med24), mRNA [NM_011869]
A_52_P231737	-0,52	-4,86	0,0146	Actl6a	Mus musculus actin-like 6A (Actl6a), mRNA [NM_019673]
A_51_P424810	-0,52	-3,46	0,0493	Ncapg2	Mus musculus non-SMC condensin II complex, subunit G2 (Ncapg2), mRNA [NM_133762]
A_51_P283876	-0,52	-5,66	0,0086	Bphl	Mus musculus biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin-associated antigen) (Bphl), mRNA [NM_026512]
A_55_P2112085	-0,52	-3,74	0,0377	Vwa8	Mus musculus von Willebrand factor A domain containing 8 (Vwa8), transcript variant 1, mRNA [NM_027906]
A_55_P2020143	-0,52	-5,55	0,0091	Slc39a3	Mus musculus solute carrier family 39 (zinc transporter), member 3 (Slc39a3), mRNA [NM_134135]
A_52_P112651	-0,52	-5,20	0,0114	Lman2	Mus musculus lectin, mannose-binding 2 (Lman2), mRNA [NM_025828]
A_55_P2031045	-0,52	-6,14	0,0065	Stat5b	Mus musculus signal transducer and activator of transcription 5B (Stat5b), transcript variant 1, mRNA [NM_011489]
A_51_P388973	-0,52	-3,71	0,0389	Zhx1	Mus musculus zinc fingers and homeoboxes 1 (Zhx1), transcript variant 2, mRNA [NM_001042438]
A_52_P542172	-0,52	-4,76	0,0157	Rb1cc1	Mus musculus RB1-inducible coiled-coil 1 (Rb1cc1), mRNA [NM_009826]
A_51_P165914	-0,52	-3,62	0,0421	Zfp770	Mus musculus zinc finger protein 770 (Zfp770), mRNA [NM_175466]
A_55_P1984003	-0,52	-4,19	0,0249	Desi1	Mus musculus desumoylating isopeptidase 1 (Desi1), mRNA [NM_134095]

A_51_P360963	-0,52	-3,88	0,0333	Mbtd1	Mus musculus mbt domain containing 1 (Mbtd1), mRNA [NM_134012]
A_52_P71544	-0,52	-3,72	0,0385	Slc25a26	Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 26 (Slc25a26), mRNA [NM_026255]
A_52_P676063	-0,52	-5,59	0,0090	Tmem126b	Mus musculus transmembrane protein 126B (Tmem126b), mRNA [NM_026734]
A_55_P2149500	-0,52	-4,15	0,0256	Kifc2	Mus musculus kinesin family member C2 (Kifc2), mRNA [NM_010630]
A_52_P559545	-0,52	-4,87	0,0145	Cercam	Mus musculus cerebral endothelial cell adhesion molecule (Cercam), mRNA [NM_207298]
A_66_P111301	-0,52	-4,99	0,0133	Mplkip	Mus musculus M-phase specific PLK1 interacting protein (Mplkip), mRNA [NM_025479]
A_55_P2037528	-0,52	-3,89	0,0326	Acsf3	Mus musculus acyl-CoA synthetase family member 3 (Acsf3), mRNA [NM_144932]
A_51_P453167	-0,52	-6,81	0,0045	Carkd	Mus musculus carbohydrate kinase domain containing (Carkd), transcript variant 1, mRNA [NM_026995]
A_55_P2005808	-0,52	-3,68	0,0401	3110057012 Rik	Mus musculus RIKEN cDNA 3110057012 gene (3110057012Rik), mRNA [NM_026622]
A_51_P122845	-0,52	-4,50	0,0194	Naa50	Mus musculus N(alpha)-acetyltransferase 50, NatE catalytic subunit (Naa50), mRNA [NM_028108]
A_66_P124817	-0,52	-4,35	0,0218	Ing1	Mus musculus inhibitor of growth family, member 1 (Ing1), mRNA [NM_011919]
A_55_P2024749	-0,52	-5,46	0,0097	Hspb11	Mus musculus heat shock protein family B (small), member 11 (Hspb11), mRNA [NM_028394]
A_52_P104824	-0,52	-3,46	0,0492	Diap3	Mus musculus diaphanous homolog 3 (Drosophila) (Diap3), mRNA [NM_019670]
A_66_P121459	-0,53	-3,66	0,0407	Cenpa	Mus musculus centromere protein A (Cenpa), mRNA [NM_007681]
A_55_P2040416	-0,53	-3,49	0,0479	Pradc1	Mus musculus protease-associated domain containing 1 (Pradc1), transcript variant 2, mRNA [NM_001163427]
A_55_P2008687	-0,53	-3,96	0,0308	Nlk	Mus musculus nemo like kinase (Nlk), mRNA [NM_008702]
A_52_P599055	-0,53	-3,75	0,0374	Atg14	Mus musculus autophagy related 14 (Atg14), mRNA [NM_172599]
A_55_P2118302	-0,53	-4,32	0,0223	Fam110a	Mus musculus family with sequence similarity 110, member A (Fam110a), transcript variant 1, mRNA [NM_028666]
A_55_P1989928	-0,53	-3,48	0,0484	Lin52	Mus musculus lin-52 homolog (C. elegans) (Lin52), mRNA [NM_173756]
A_51_P461504	-0,53	-4,37	0,0212	Eef2k	Mus musculus eukaryotic elongation factor-2 kinase (Eef2k), transcript variant 1, mRNA [NM_007908]
A_55_P1968235	-0,53	-6,18	0,0064	Rab33b	Mus musculus RAB33B, member RAS oncogene family (Rab33b), mRNA [NM_016858]
A_55_P2141311	-0,53	-3,56	0,0446	AU022252	Mus musculus expressed sequence AU022252 (AU022252), mRNA [NM_001012400]
A_52_P532687	-0,53	-4,17	0,0253	Ermard	Mus musculus ER membrane associated RNA degradation (Ermard), transcript variant 1, mRNA [NM_001039552]
A_55_P2059986	-0,53	-3,63	0,0419	Chst14	Mus musculus carbohydrate (N-acetylgalactosamine 4-0) sulfotransferase 14 (Chst14), mRNA [NM_028117]
A_55_P2096652	-0,53	-6,00	0,0070	Ccbl1	Mus musculus cysteine conjugate-beta lyase 1 (Ccbl1), mRNA [NM_172404]
A_55_P2162136	-0,53	-5,23	0,0110	Hmgn2	Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]
A_51_P265545	-0,53	-5,68	0,0085	Tmem57	Mus musculus transmembrane protein 57 (Tmem57), mRNA [NM_025382]
A_55_P2083967	-0,53	-4,37	0,0213	Trmt5	Mus musculus TRM5 tRNA methyltransferase 5 (Trmt5), mRNA [NM_029580]
A_52_P490272	-0,53	-4,10	0,0271	Nup98	Mus musculus nucleoporin 98 (Nup98), transcript variant 2, mRNA [NM_022979]
A_55_P2098911	-0,53	-4,99	0,0133	Lrrcc1	Mus musculus leucine rich repeat and coiled-coil domain containing 1 (Lrrcc1), transcript variant 3, mRNA [NM_028915]
A_51_P142046	-0,53	-3,79	0,0363	Oxld1	Mus musculus oxidoreductase like domain containing 1 (Oxld1), mRNA [NM_025560]
A_55_P2145696	-0,53	-3,90	0,0324	Leprel4	Mus musculus leprecan-like 4 (Leprel4), mRNA [NM_176830]
A_52_P596541	-0,53	-5,36	0,0103	Kdelr1	Mus musculus KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 1 (Kdelr1), mRNA [NM_133950]
A_52_P608495	-0,53	-4,91	0,0141	Aars2	Mus musculus alanyl-tRNA synthetase 2, mitochondrial (putative) (Aars2), mRNA [NM_198608]
A_55_P2132694	-0,53	-3,72	0,0387	Ascc2	Mus musculus activating signal cointegrator 1 complex subunit 2 (Ascc2), mRNA [NM_029291]
A_55_P1992074	-0,53	-4,98	0,0134	Ptpra	Mus musculus protein tyrosine phosphatase, receptor type, A (Ptpra), transcript variant 1, mRNA [NM_008980]
A_52_P234354	-0,53	-3,69	0,0398	Hic2	Mus musculus hypermethylated in cancer 2 (Hic2), mRNA [NM_178922]
A_51_P408749	-0,53	-4,05	0,0282	4933439C10 Rik	Mus musculus RIKEN cDNA 4933439C10 gene (4933439C10Rik), long non-coding RNA [NR_015585]
A_51_P442284	-0,53	-5,68	0,0085	Dnajc12	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 12 (Dnajc12), transcript variant 1, mRNA [NM_013888]
A_51_P195958	-0,53	-3,47	0,0490	Phlda1	Mus musculus pleckstrin homology-like domain, family A, member 1 (Phlda1), mRNA [NM_009344]
A_55_P1972720	-0,53	-5,10	0,0122	Pmm1	Mus musculus phosphomannomutase 1 (Pmm1), transcript variant 1, mRNA [NM_013872]
A_55_P2140288	-0,53	-5,79	0,0080	Phka2	Mus musculus phosphorylase kinase alpha 2 (Phka2), transcript variant 1, mRNA [NM_172783]
A_51_P473242	-0,53	-3,97	0,0304	Zfp426	Mus musculus zinc finger protein 426 (Zfp426), transcript variant 1, mRNA [NM_146221]
A_51_P189959	-0,53	-3,76	0,0371	Oxsr1	Mus musculus oxidative-stress responsive 1 (Oxsr1), transcript variant 1, mRNA [NM_133985]
A_51_P114177	-0,53	-4,89	0,0144	Eci3	Mus musculus enoyl-Coenzyme A delta isomerase 3 (Eci3), mRNA [NM_026947]
A_52_P384574	-0,53	-3,52	0,0468	Stard4	Mus musculus StAR-related lipid transfer (START) domain containing 4 (Stard4), mRNA [NM_133774]
A_66_P128055	-0,53	-3,80	0,0359	AI846148	Mus musculus expressed sequence AI846148 (AI846148), transcript variant 1, mRNA [NM_001033139]



A_66_P123938	-0,53	-5,42	0,0099	Smim13	Mus musculus small integral membrane protein 13 (Smim13), mRNA [NM_001135577]
A_55_P2056342	-0,53	-6,22	0,0063	Mgst3	Mus musculus microsomal glutathione S-transferase 3 (Mgst3), mRNA [NM_025569]
A_55_P2111293	-0,53	-4,83	0,0149	3110009E18 Rik	Mus musculus RIKEN cDNA 3110009E18 gene (3110009E18Rik), transcript variant 1, mRNA [NM_028439]
A_52_P623775	-0,53	-4,72	0,0162	Eri2	Mus musculus exoribonuclease 2 (Eri2), mRNA [NM_027698]
A_55_P2088315	-0,53	-3,54	0,0455	Vmn1r87	Mus musculus vomeronasal 1 receptor 87 (Vmn1r87), mRNA [NM_134227]
A_55_P2079175	-0,54	-4,45	0,0200	Dnm1	Mus musculus dynamin 1 (Dnm1), mRNA [NM_010065]
A_55_P1975354	-0,54	-3,53	0,0462	Tcf3	Mus musculus transcription factor 3 (Tcf3), transcript variant 7, mRNA [NM_001164153]
A_52_P410765	-0,54	-4,86	0,0146	Sema7a	Mus musculus sema domain, immunoglobulin domain (Ig), and GPI membrane anchor, (semaphorin) 7A (Sema7a), mRNA [NM_011352]
A_52_P367745	-0,54	-3,67	0,0404	Acads	Mus musculus acyl-Coenzyme A dehydrogenase, short chain (Acads), mRNA [NM_007383]
A_55_P1964477	-0,54	-5,05	0,0127	Srsf1	Mus musculus serine/arginine-rich splicing factor 1 (Srsf1), transcript variant 2, mRNA [NM_001078167]
A_55_P2073845	-0,54	-4,67	0,0168	Mrpl47	Mus musculus mitochondrial ribosomal protein L47 (Mrpl47), mRNA [NM_029017]
A_55_P2156462	-0,54	-5,32	0,0106	Nt5c3b	Mus musculus 5'-nucleotidase, cytosolic IIIB (Nt5c3b), transcript variant 1, mRNA [NM_001102650]
A_52_P343343	-0,54	-5,02	0,0130	Rpl7l1	Mus musculus ribosomal protein L7-like 1 (Rpl7l1), mRNA [NM_025433]
A_55_P2078276	-0,54	-3,71	0,0388	Ctag2	Mus musculus cancer/testis antigen 2 (Ctag2), mRNA [NM_027302]
A_52_P5901	-0,54	-3,69	0,0396	Saal1	Mus musculus serum amyloid A-like 1 (Saal1), mRNA [NM_030233]
A_55_P2185415	-0,54	-4,59	0,0178	Thap7	Mus musculus THAP domain containing 7 (Thap7), mRNA [NM_026909]
A_55_P2158458	-0,54	-4,65	0,0170	Iqcc	Mus musculus IQ motif containing C (Iqcc), mRNA [NM_198026]
A_55_P2134979	-0,54	-4,71	0,0163	Gm6115	PREDICTED: Mus musculus predicted gene 6115 (Gm6115), mRNA [XM_006543113]
A_55_P2000938	-0,54	-4,28	0,0231	Ahcy	Mus musculus S-adenosylhomocysteine hydrolase, mRNA (cDNA clone MGC:102079 IMAGE:6828058), complete cds. [BC086781]
A_55_P2006911	-0,54	-5,25	0,0109	Pik3c3	Mus musculus phosphoinositide-3-kinase, class 3 (Pik3c3), mRNA [NM_181414]
A_55_P2061268	-0,54	-3,62	0,0422	Rnpc3	Mus musculus RNA-binding region (RNP1, RRM) containing 3 (Rnpc3), transcript variant 1, mRNA [NM_001038696]
A_55_P1971956	-0,54	-5,67	0,0086	Ift46	Mus musculus intraflagellar transport 46 (Ift46), mRNA [NM_023831]
A_51_P356822	-0,54	-3,51	0,0473	Vps13c	Mus musculus 0 day neonate cerebellum cDNA, RIKEN full-length enriched library, clone:C230055H22 product:hypothetical Lysine-rich region containing protein, full insert sequence. [AK048766]
A_51_P333949	-0,54	-4,44	0,0200	Ints7	Mus musculus integrator complex subunit 7 (Ints7), mRNA [NM_178632]
A_51_P432511	-0,54	-3,77	0,0370	Lace1	Mus musculus lactation elevated 1 (Lace1), mRNA [NM_145743]
A_55_P1959628	-0,54	-4,19	0,0248	Pfdn4	Mus musculus prefoldin 4 (Pfdn4), transcript variant 1, mRNA [NM_001110152]
A_55_P1984841	-0,54	-5,90	0,0074	Polr2i	polymerase (RNA) II (DNA directed) polypeptide I [Source:MGI Symbol;Acc:MGI:1917170] [ENSMUST00000145559]
A_65_P06572	-0,54	-3,85	0,0341	Smad5	Mus musculus SMAD family member 5 (Smad5), transcript variant 2, mRNA [NM_001164041]
A_52_P356780	-0,54	-5,48	0,0095	Pdzd8	Mus musculus PDZ domain containing 8 (Pdzd8), mRNA [NM_001033222]
A_52_P655265	-0,54	-3,85	0,0342	Bora	Mus musculus bora, aurora kinase A activator (Bora), mRNA [NM_175265]
A_55_P2367117	-0,54	-4,78	0,0155	Pitpnb	Mus musculus phosphatidylinositol transfer protein, beta (Pitpnb), mRNA [NM_019640]
A_51_P481644	-0,54	-5,27	0,0108	Mbip	Mus musculus MAP3K12 binding inhibitory protein 1 (Mbip), mRNA [NM_145442]
A_51_P434171	-0,54	-3,91	0,0322	Myo19	Mus musculus myosin XIX (Myo19), mRNA [NM_025414]
A_55_P2153296	-0,54	-4,01	0,0293	Pycrl	Mus musculus pyrroline-5-carboxylate reductase-like (Pycrl), mRNA [NM_025412]
A_51_P457492	-0,54	-5,14	0,0119	Tmem223	Mus musculus transmembrane protein 223 (Tmem223), mRNA [NM_025791]
A_55_P1974134	-0,54	-6,80	0,0045	Ict1	Mus musculus immature colon carcinoma transcript 1 (Ict1), mRNA [NM_026729]
A_52_P163939	-0,54	-4,87	0,0146	Cln6	Mus musculus ceroid-lipofuscinosis, neuronal 6 (Cln6), mRNA [NM_001033175]
A_51_P474454	-0,54	-4,77	0,0156	Rnaseh2b	Mus musculus ribonuclease H2, subunit B (Rnaseh2b), mRNA [NM_026001]
A_52_P558609	-0,54	-4,92	0,0140	Clec16a	Mus musculus C-type lectin domain family 16, member A (Clec16a), transcript variant 1, mRNA [NM_177562]
A_51_P330630	-0,54	-5,73	0,0083	Usp3	Mus musculus ubiquitin specific peptidase 3 (Usp3), mRNA [NM_144937]
A_55_P2236818	-0,54	-4,38	0,0211	A430103D13 Rik	Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430103D13 product:unclassifiable, full insert sequence. [AK020759]
A_52_P564951	-0,54	-3,76	0,0374	C2cd3	Mus musculus C2 calcium-dependent domain containing 3 (C2cd3), mRNA [NM_001017985]
A_55_P2062836	-0,54	-5,98	0,0071	Ttf2	Mus musculus transcription termination factor, RNA polymerase II (Ttf2), mRNA [NM_001013026]
A_55_P2033932	-0,54	-4,29	0,0230	Zzz3	Mus musculus zinc finger, ZZ domain containing 3 (Zzz3), transcript variant 2, mRNA [NM_001080755]
A_51_P342567	-0,54	-4,51	0,0191	Akap12	Mus musculus A kinase (PRKA) anchor protein (gravin) 12 (Akap12), mRNA [NM_031185]
A_52_P466701	-0,54	-4,27	0,0234	Fuom	Mus musculus fucose mutarotase (Fuom), transcript variant 1, mRNA [NM_026928]

A_52_P191537	-0,54	-4,05	0,0282	Sec24b	Sec24 related gene family, member B (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:2139764] [ENSMUST0000001079]
A_51_P321531	-0,54	-3,51	0,0473	Purg	Mus musculus purine-rich element binding protein G (Purg), transcript variant 2, mRNA [NM_001098233]
A_51_P348325	-0,54	-5,19	0,0114	Poc1b	Mus musculus POC1 centriolar protein homolog B (Chlamydomonas) (Poc1b), mRNA [NM_027740]
A_51_P337856	-0,55	-4,64	0,0171	Ubl7	Mus musculus ubiquitin-like 7 (bone marrow stromal cell-derived) (Ubl7), transcript variant 2, mRNA [NM_027086]
A_51_P324287	-0,55	-5,27	0,0108	Kif23	Mus musculus kinesin family member 23 (Kif23), mRNA [NM_024245]
A_51_P478311	-0,55	-4,59	0,0178	Nmd3	Mus musculus NMD3 homolog (S. cerevisiae) (Nmd3), mRNA [NM_133787]
A_51_P397375	-0,55	-4,73	0,0161	Pet112	Mus musculus PET112 homolog (S. cerevisiae) (Pet112), mRNA [NM_144896]
A_55_P2014690	-0,55	-3,71	0,0388	Taok3	TAO kinase 3 [Source:MGI Symbol;Acc:MGI:3041177] [ENSMUST0000011978]
A_51_P184197	-0,55	-5,19	0,0114	Smarcd2	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2 (Smarcd2), transcript variant 2, mRNA [NM_031878]
A_51_P176352	-0,55	-5,29	0,0106	Ndr2	Mus musculus N-myc downstream regulated gene 2 (Ndr2), transcript variant 1, mRNA [NM_013864]
A_55_P1960167	-0,55	-4,40	0,0208	Bcat2	Mus musculus branched chain aminotransferase 2, mitochondrial (Bcat2), transcript variant 2, mRNA [NM_001243052]
A_51_P139069	-0,55	-4,94	0,0139	Wdr45	Mus musculus WD repeat domain 45 (Wdr45), transcript variant 2, mRNA [NM_172372]
A_52_P24631	-0,55	-3,93	0,0317	Azin1	Mus musculus antizyme inhibitor 1 (Azin1), transcript variant 2, mRNA [NM_018745]
A_51_P277718	-0,55	-4,96	0,0136	Cenpc1	Mus musculus centromere protein C1 (Cenpc1), mRNA [NM_007683]
A_51_P305320	-0,55	-5,30	0,0106	B3gnt1	Mus musculus UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 1 (B3gnt1), mRNA [NM_175383]
A_55_P2071226	-0,55	-3,74	0,0378	Il1f5	Mus musculus interleukin 1 family, member 5 (delta) (Il1f5), transcript variant 1, mRNA [NM_001146087]
A_55_P2048560	-0,55	-3,76	0,0371	Smn1	Mus musculus survival motor neuron 1 (Smn1), transcript variant 2, mRNA [NM_001252629]
A_51_P293901	-0,55	-4,58	0,0180	Dhrs1	Mus musculus dehydrogenase/reductase (SDR family) member 1 (Dhrs1), mRNA [NM_026819]
A_52_P476699	-0,55	-3,57	0,0442	Gemin4	Mus musculus gem (nuclear organelle) associated protein 4 (Gemin4), mRNA [NM_177367]
A_51_P491095	-0,55	-4,54	0,0187	Gzf1	Mus musculus GDNF-inducible zinc finger protein 1 (Gzf1), mRNA [NM_028986]
A_52_P500077	-0,55	-4,92	0,0140	Zfp551	Mus musculus zinc finger protein 551 (Zfp551), mRNA [NM_001033820]
A_51_P443618	-0,55	-6,16	0,0064	O610011F06 Rik	Mus musculus RIKEN cDNA O610011F06 gene (O610011F06Rik), mRNA [NM_026686]
A_52_P17098	-0,55	-4,95	0,0138	Mpp7	Mus musculus membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7) (Mpp7), transcript variant 2, mRNA [NM_001161620]
A_55_P2051914	-0,55	-4,03	0,0288	Zfp568	Mus musculus zinc finger protein 568 (Zfp568), transcript variant 1, mRNA [NM_001167872]
A_51_P429366	-0,55	-6,38	0,0057	Hes6	Mus musculus hairy and enhancer of split 6 (Hes6), mRNA [NM_019479]
A_51_P485594	-0,55	-3,58	0,0441	Tab3	Mus musculus TGF-beta activated kinase 1/MAP3K7 binding protein 3 (Tab3), mRNA [NM_025729]
A_55_P2085485	-0,55	-5,58	0,0090	Pidd1	Mus musculus p53 induced death domain protein 1 (Pidd1), mRNA [NM_022654]
A_55_P1968200	-0,55	-4,32	0,0224	Hjurp	Mus musculus Holliday junction recognition protein (Hjurp), mRNA [NM_198652]
A_52_P231635	-0,55	-3,47	0,0487	Oxsm	Mus musculus 3-oxoacyl-ACP synthase, mitochondrial (Oxsm), mRNA [NM_027695]
A_52_P582261	-0,55	-3,49	0,0477	Ikzf5	Mus musculus IKAROS family zinc finger 5 (Ikzf5), mRNA [NM_175115]
A_51_P378009	-0,55	-5,85	0,0077	Blzf1	Mus musculus basic leucine zipper nuclear factor 1 (Blzf1), transcript variant 1, mRNA [NM_025505]
A_52_P432780	-0,55	-4,82	0,0151	Mrpl50	Mus musculus mitochondrial ribosomal protein L50 (Mrpl50), mRNA [NM_178603]
A_52_P287683	-0,55	-3,89	0,0328	Pik3c3	Mus musculus phosphoinositide-3-kinase, class 3 (Pik3c3), mRNA [NM_181414]
A_52_P450835	-0,55	-6,04	0,0069	Cdpf1	Mus musculus cysteine rich, DPF motif domain containing 1 (Cdpf1), transcript variant 2, mRNA [NM_197998]
A_65_P07450	-0,55	-4,45	0,0199	Brd8	PREDICTED: Mus musculus bromodomain containing 8 (Brd8), transcript variant X1, mRNA [XM_006526354]
A_51_P155323	-0,55	-4,75	0,0158	Hc	Mus musculus hemolytic complement (Hc), mRNA [NM_010406]
A_51_P301994	-0,55	-4,07	0,0276	Trmt10c	Mus musculus tRNA methyltransferase 10C (Trmt10c), mRNA [NM_029092]
A_52_P239403	-0,55	-3,62	0,0422	Ipo7	Mus musculus importin 7 (Ipo7), mRNA [NM_181517]
A_51_P134262	-0,55	-3,92	0,0318	1700052K11 Rik	Mus musculus RIKEN cDNA 1700052K11 gene (1700052K11Rik), long non-coding RNA [NR_027956]
A_52_P533280	-0,55	-4,16	0,0254	Prrm1	Mus musculus protamine 1 (Prrm1), mRNA [NM_013637]
A_55_P1967693	-0,55	-5,07	0,0125	Wipi2	Mus musculus WD repeat domain, phosphoinositide interacting 2 (Wipi2), mRNA [NM_178398]
A_55_P2001861	-0,55	-5,44	0,0098	LOC102640717	PREDICTED: Mus musculus transcription elongation factor 1 homolog (LOC102640717), mRNA [XM_006526529]
A_52_P630571	-0,55	-5,27	0,0108	Epg5	Mus musculus ectopic P-granules autophagy protein 5 homolog (C. elegans) (Epg5), mRNA [NM_001195633]
A_51_P488510	-0,55	-4,69	0,0165	App1	Mus musculus adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 1 (App1), mRNA [NM_145221]
A_51_P138923	-0,55	-3,90	0,0326	Peg12	Mus musculus paternally expressed 12 (Peg12), mRNA [NM_013788]
A_65_P19784	-0,56	-5,54	0,0092	Asb7	Mus musculus ankyrin repeat and SOCS box-containing 7 (Asb7), transcript variant 1, mRNA [NM_080443]



A_66_P129852	-0,56	-3,49	0,0480	Fxn	Mus musculus frataxin (Fxn), mRNA [NM_008044]
A_55_P2427685	-0,56	-5,59	0,0089	Agl	Mus musculus amylo-1,6-glucosidase, 4-alpha-glucanotransferase (Agl), mRNA [NM_001081326]
A_51_P392861	-0,56	-4,77	0,0156	Med25	Mus musculus mediator complex subunit 25 (Med25), mRNA [NM_029365]
A_51_P444994	-0,56	-4,62	0,0175	Tmem203	Mus musculus transmembrane protein 203 (Tmem203), mRNA [NM_177344]
A_51_P454691	-0,56	-5,67	0,0086	4930430F08 Rik	Mus musculus RIKEN cDNA 4930430F08 gene (4930430F08Rik), mRNA [NM_175128]
A_55_P1964228	-0,56	-4,41	0,0207	Elac1	Mus musculus elacC homolog 1 (E. coli) (Elac1), mRNA [NM_053255]
A_51_P391445	-0,56	-4,31	0,0227	Ifngr1	Mus musculus interferon gamma receptor 1 (Ifngr1), mRNA [NM_010511]
A_52_P670014	-0,56	-4,63	0,0173	Zrsr2	Mus musculus zinc finger (CCCH type), RNA binding motif and serine/arginine rich 2 (Zrsr2), transcript variant 2, mRNA [NM_178794]
A_66_P102510	-0,56	-5,89	0,0075	Fam114a2	Mus musculus family with sequence similarity 114, member A2 (Fam114a2), transcript variant 1, mRNA [NM_001168668]
A_51_P473219	-0,56	-3,82	0,0352	Siae	Mus musculus sialic acid acetyltransferase (Siae), mRNA [NM_011734]
A_51_P513032	-0,56	-5,58	0,0090	Trps1	Mus musculus trichorhinophalangeal syndrome I (human) (Trps1), mRNA [NM_032000]
A_51_P367563	-0,56	-4,30	0,0228	Rsph3a	Mus musculus radial spoke 3A homolog (Chlamydomonas) (Rsph3a), mRNA [NM_025789]
A_52_P247788	-0,56	-4,42	0,0204	Ino80c	Mus musculus INO80 complex subunit C (Ino80c), mRNA [NM_172625]
A_51_P487308	-0,56	-5,64	0,0087	Pstk	Mus musculus phosphoserine/threonine kinase (Pstk), mRNA [NM_001039534]
A_55_P2011802	-0,56	-4,65	0,0170	Pdk2	Mus musculus pyruvate dehydrogenase kinase, isoenzyme 2 (Pdk2), mRNA [NM_133667]
A_52_P223524	-0,56	-4,26	0,0236	Dennd6b	Mus musculus DENN/MADD domain containing 6B (Dennd6b), mRNA [NM_027081]
A_55_P2105457	-0,56	-4,41	0,0207	Zfp7	Mus musculus zinc finger protein 7 (Zfp7), mRNA [NM_145916]
A_55_P2005838	-0,56	-3,52	0,0467	Ticrr	Mus musculus TOPBP1-interacting checkpoint and replication regulator (Ticrr), mRNA [NM_029835]
A_55_P1978860	-0,56	-4,13	0,0262	Trp53bp2	Mus musculus transformation related protein 53 binding protein 2 (Trp53bp2), mRNA [NM_173378]
A_52_P126146	-0,56	-3,91	0,0323	Riok1	Mus musculus RIO kinase 1 (yeast) (Riok1), mRNA [NM_024242]
A_51_P343356	-0,56	-4,09	0,0271	Isoc2b	Mus musculus isochorismatase domain containing 2b (Isoc2b), mRNA [NM_026158]
A_55_P2041397	-0,56	-4,96	0,0137	Ezh2	Mus musculus enhancer of zeste homolog 2 (Drosophila) (Ezh2), transcript variant 1, mRNA [NM_007971]
A_51_P118539	-0,56	-4,74	0,0159	2700049A03 Rik	Mus musculus RIKEN cDNA 2700049A03 gene (2700049A03Rik), transcript variant 1, mRNA [NM_001163378]
A_52_P686091	-0,56	-3,74	0,0378	Phf2	Mus musculus PHD finger protein 2 (Phf2), mRNA [NM_011078]
A_55_P2022773	-0,57	-3,81	0,0355	Glccl1	Mus musculus glucocorticoid induced transcript 1 (Glccl1), transcript variant 1, mRNA [NM_133236]
A_55_P1957373	-0,57	-6,06	0,0068	Pdcl	Mus musculus phosducin-like (Pdcl), mRNA [NM_026176]
A_51_P330133	-0,57	-6,44	0,0055	Pspc1	Mus musculus paraspeckle protein 1 (Pspc1), mRNA [NM_025682]
A_51_P223946	-0,57	-4,23	0,0240	Pds5b	Mus musculus PDS5, regulator of cohesion maintenance, homolog B (S. cerevisiae) (Pds5b), mRNA [NM_175310]
A_52_P515282	-0,57	-3,57	0,0444	1110051M20 Rik	Mus musculus RIKEN cDNA 1110051M20 gene (1110051M20Rik), transcript variant 2, mRNA [NM_175123]
A_55_P1955147	-0,57	-4,61	0,0175	Camk1d	Mus musculus calcium/calmodulin-dependent protein kinase ID (Camk1d), transcript variant 1, mRNA [NM_177343]
A_51_P311694	-0,57	-3,62	0,0422	Ypel5	Mus musculus yippee-like 5 (Drosophila) (Ypel5), mRNA [NM_027166]
A_55_P2109454	-0,57	-4,64	0,0171	Gtf3c5	Mus musculus general transcription factor IIIC, polypeptide 5 (Gtf3c5), transcript variant 1, mRNA [NM_001290484]
A_51_P472329	-0,57	-4,07	0,0276	Tldc1	Mus musculus TBC/LysM associated domain containing 1 (Tldc1), mRNA [NM_028883]
A_52_P630632	-0,57	-4,76	0,0156	Rcbtb2	Mus musculus regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2 (Rcbtb2), transcript variant 2, mRNA [NM_134083]
A_51_P368009	-0,57	-4,33	0,0222	E2f2	Mus musculus E2F transcription factor 2 (E2f2), mRNA [NM_177733]
A_52_P264229	-0,57	-4,01	0,0293	Ing5	Mus musculus inhibitor of growth family, member 5 (Ing5), mRNA [NM_025454]
A_65_P18570	-0,57	-4,46	0,0198	Tardbp	Mus musculus TAR DNA binding protein (Tardbp), transcript variant 1, mRNA [NM_145556]
A_51_P269687	-0,57	-3,46	0,0494	Pole2	Mus musculus polymerase (DNA directed), epsilon 2 (p59 subunit) (Pole2), mRNA [NM_011133]
A_55_P2132853	-0,57	-3,73	0,0382	2010300C02 Rik	Mus musculus RIKEN cDNA 2010300C02 gene (2010300C02Rik), mRNA [NM_028096]
A_55_P2029842	-0,57	-6,28	0,0061	Hnrnpa1	Mus musculus heterogeneous nuclear ribonucleoprotein A1 (Hnrnpa1), transcript variant 2, mRNA [NM_001039129]
A_55_P2021358	-0,57	-3,85	0,0341	Klhl15	Mus musculus kelch-like 15 (Klhl15), transcript variant 2, mRNA [NM_001039060]
A_51_P340402	-0,57	-5,89	0,0075	Eefsec	Mus musculus eukaryotic elongation factor, selenocysteine-tRNA-specific (Eefsec), mRNA [NM_023060]
A_55_P1964403	-0,57	-5,07	0,0125	Agfg2	Mus musculus ArfGAP with FG repeats 2 (Agfg2), transcript variant 2, mRNA [NM_178162]
A_55_P2075636	-0,57	-5,28	0,0107	Epc2	Mus musculus enhancer of polycomb homolog 2 (Drosophila) (Epc2), mRNA [NM_172663]
A_55_P1954266	-0,57	-5,20	0,0113	Zfp672	Mus musculus zinc finger protein 672 (Zfp672), transcript variant 5, mRNA [NM_001256518]
A_52_P376269	-0,57	-4,13	0,0263	Nrf1	Mus musculus nuclear respiratory factor 1 (Nrf1), transcript variant 6, mRNA [NM_010938]

A_55_P2089070	-0,57	-3,77	0,0369	4933431K14 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933431K14 product:unclassifiable, full insert sequence. [AK017009]
A_55_P2054883	-0,57	-5,04	0,0128	Trappc1	trafficking protein particle complex 1 [Source:MGI Symbol;Acc:MGI:1098727] [ENSMUST0000060956]
A_52_P114282	-0,57	-4,20	0,0246	Armxc5	Mus musculus armadillo repeat containing, X-linked 5 (Armxc5), mRNA [NM_001009575]
A_55_P2085921	-0,57	-4,34	0,0219	Ppp2r5d	Mus musculus protein phosphatase 2, regulatory subunit B', delta (Ppp2r5d), mRNA [NM_009358]
A_52_P620793	-0,57	-6,19	0,0064	Eif2a	Mus musculus eukaryotic translation initiation factor 2A (Eif2a), mRNA [NM_001005509]
A_55_P2036459	-0,57	-4,87	0,0145	Med24	Mus musculus mediator complex subunit 24 (Med24), mRNA [NM_011869]
A_55_P2173982	-0,57	-3,51	0,0473	Rrm2	Mus musculus ribonucleotide reductase M2 (Rrm2), mRNA [NM_009104]
A_51_P461761	-0,57	-4,97	0,0135	Zcchc8	Mus musculus zinc finger, CCHC domain containing 8 (Zcchc8), mRNA [NM_027494]
A_52_P219913	-0,57	-4,11	0,0267	Cdan1	Mus musculus congenital dyserythropoietic anemia, type I (human) (Cdan1), mRNA [NM_026891]
A_55_P2098688	-0,57	-6,05	0,0069	Mcrs1	Mus musculus microspherule protein 1 (Mcrs1), transcript variant 1, mRNA [NM_016766]
A_51_P232954	-0,58	-4,22	0,0243	Nvl	Mus musculus nuclear VCP-like (Nvl), mRNA [NM_026171]
A_55_P2110435	-0,58	-3,66	0,0407	Zscan20	Mus musculus zinc finger and SCAN domains 20 (Zscan20), mRNA [NM_177758]
A_55_P1970234	-0,58	-5,31	0,0106	Dclk2	Mus musculus doublecortin-like kinase 2 (Dclk2), transcript variant 4, mRNA [NM_001195498]
A_55_P2316760	-0,58	-3,47	0,0490	9430063H18 Rik	Mus musculus 12 days embryo embryonic body between diaphragm region and neck cDNA, RIKEN full-length enriched library, clone:9430063H18 product:unclassifiable, full insert sequence. [AK020472]
A_52_P480301	-0,58	-4,36	0,0216	Sppl3	Mus musculus signal peptide peptidase 3 (Sppl3), mRNA [NM_029012]
A_55_P1967829	-0,58	-3,76	0,0372	Klc3	Mus musculus kinesin light chain 3 (Klc3), transcript variant 1, mRNA [NM_001286038]
A_55_P2124956	-0,58	-4,22	0,0242	Zfp444	Mus musculus zinc finger protein 444 (Zfp444), transcript variant 1, mRNA [NM_001146024]
A_51_P502082	-0,58	-4,22	0,0242	Rrm1	Mus musculus ribonucleotide reductase M1 (Rrm1), mRNA [NM_009103]
A_55_P2148243	-0,58	-4,27	0,0233	Wdr12	Mus musculus WD repeat domain 12, mRNA (cDNA clone MGC:7936 IMAGE:3583955), complete cds. [BC004748]
A_51_P136888	-0,58	-5,89	0,0075	Rb1	Mus musculus retinoblastoma 1 (Rb1), mRNA [NM_009029]
A_52_P205789	-0,58	-4,15	0,0256	Unc119b	Mus musculus unc-119 homolog B (C. elegans) (Unc119b), mRNA [NM_175352]
A_55_P2093784	-0,58	-4,11	0,0268	Pip4k2a	Mus musculus phosphatidylinositol-5-phosphate 4-kinase, type II, alpha (Pip4k2a), mRNA [NM_008845]
A_55_P1968433	-0,58	-3,81	0,0356	Agpat9	Mus musculus 1-acylglycerol-3-phosphate O-acyltransferase 9 (Agpat9), mRNA [NM_172715]
A_55_P2022104	-0,58	-5,44	0,0098	Rfwd2	Mus musculus ring finger and WD repeat domain 2 (Rfwd2), mRNA [NM_011931]
A_55_P2061084	-0,58	-3,71	0,0388	Wfikkn2	Mus musculus WAP, follistatin/kazal, immunoglobulin, kunitz and netrin domain containing 2 (Wfikkn2), mRNA [NM_181819]
A_55_P2108883	-0,58	-3,75	0,0376	AV356131	Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A330057J19 product:unclassifiable, full insert sequence. [AK138549]
A_51_P290685	-0,58	-3,72	0,0388	Ppp6r3	Mus musculus protein phosphatase 6, regulatory subunit 3 (Ppp6r3), transcript variant 2, mRNA [NM_029456]
A_65_P03031	-0,58	-4,34	0,0220	Ncapd3	Mus musculus non-SMC condensin II complex, subunit D3 (Ncapd3), mRNA [NM_178113]
A_55_P2133280	-0,58	-4,68	0,0166	Ap4b1	Mus musculus adaptor-related protein complex AP-4, beta 1 (Ap4b1), transcript variant 1, mRNA [NM_026193]
A_51_P393958	-0,58	-4,51	0,0191	Fbxo5	Mus musculus F-box protein 5 (Fbxo5), mRNA [NM_025995]
A_51_P310254	-0,58	-3,89	0,0328	Fam118a	Mus musculus family with sequence similarity 118, member A (Fam118a), mRNA [NM_133750]
A_51_P148314	-0,58	-4,09	0,0272	Fam117a	Mus musculus family with sequence similarity 117, member A (Fam117a), mRNA [NM_172543]
A_55_P2038504	-0,58	-4,14	0,0259	38777	Mus musculus membrane-associated ring finger (C3HC4) 6 (March6), mRNA [NM_172606]
A_51_P405985	-0,58	-4,94	0,0139	Fig4	Mus musculus FIG4 homolog (S. cerevisiae) (Fig4), mRNA [NM_133999]
A_55_P2066007	-0,58	-6,93	0,0042	Crocc	Mus musculus ciliary rootlet coiled-coil, rootletin (Crocc), transcript variant 1, mRNA [NM_172122]
A_55_P2146177	-0,58	-4,76	0,0157	Cerk	Mus musculus ceramide kinase (Cerk), mRNA [NM_145475]
A_52_P140497	-0,58	-3,73	0,0382	Golga3	golgi autoantigen, golgin subfamily a, 3 [Source:MGI Symbol;Acc:MGI:96958] [ENSMUST00000112512]
A_51_P467505	-0,58	-4,32	0,0224	Tec	Mus musculus tec protein tyrosine kinase (Tec), transcript variant 4, mRNA [NM_013689]
A_66_P111572	-0,58	-3,71	0,0390	Fam122b	Mus musculus family with sequence similarity 122, member B (Fam122b), transcript variant 2, mRNA [NM_030167]
A_52_P573366	-0,58	-3,62	0,0422	Hnnpul1	Mus musculus heterogeneous nuclear ribonucleoprotein U-like 1 (Hnnpul1), transcript variant 2, mRNA [NM_178089]
A_51_P128775	-0,58	-4,69	0,0165	Zfp84	Mus musculus zinc finger protein 84 (Zfp84), mRNA [NM_023750]
A_52_P605812	-0,58	-4,52	0,0190	Pthr1	Mus musculus peptidyl-tRNA hydrolase 1 homolog (S. cerevisiae) (Pthr1), mRNA [NM_178595]
A_55_P2008874	-0,58	-4,18	0,0252	Dnmt3b	Mus musculus DNA methyltransferase 3B (Dnmt3b), transcript variant 1, mRNA [NM_001003961]
A_51_P424232	-0,58	-4,53	0,0189	Mecp2	Mus musculus methyl CpG binding protein 2 (Mecp2), transcript variant 2, mRNA [NM_010788]
A_55_P2111292	-0,59	-3,90	0,0325	3110009E18 Rik	Mus musculus RIKEN cDNA 3110009E18 gene (3110009E18Rik), transcript variant 2, mRNA [NM_001172074]

A_55_P2088028	-0,59	-3,52	0,0470	Mtss1	Mus musculus metastasis suppressor 1 (Mtss1), transcript variant 1, mRNA [NM_144800]
A_65_P01319	-0,59	-7,12	0,0037	Pde4b	Mus musculus phosphodiesterase 4B, cAMP specific (Pde4b), transcript variant 1, mRNA [NM_019840]
A_55_P2088715	-0,59	-4,44	0,0200	Deb1	Mus musculus differentially expressed in B16F10 1 (Deb1), mRNA [NM_026794]
A_52_P103260	-0,59	-5,06	0,0125	AA987161	Mus musculus expressed sequence AA987161 (AA987161), mRNA [NM_001163246]
A_55_P2273705	-0,59	-5,94	0,0073	A330044H09	Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A330044H09 product:unclassifiable, full insert sequence. [AK039451]
A_51_P280532	-0,59	-4,09	0,0272	Supt16	Mus musculus suppressor of Ty 16 (Supt16), mRNA [NM_033618]
A_66_P117389	-0,59	-3,49	0,0480	Rcn2	Mus musculus reticulocalbin 2 (Rcn2), transcript variant 1, mRNA [NM_011992]
A_55_P2166421	-0,59	-5,97	0,0072	Rpusd3	Mus musculus RNA pseudouridylate synthase domain containing 3 (Rpusd3), mRNA [NM_001033204]
A_55_P2339650	-0,59	-4,97	0,0135	Hnrnp1	Mus musculus heterogeneous nuclear ribonucleoprotein L (Hnrnp1), mRNA [NM_177301]
A_66_P124011	-0,59	-5,28	0,0107	Spint2	Mus musculus serine protease inhibitor, Kunitz type 2 (Spint2), transcript variant 1, mRNA [NM_011464]
A_55_P2164534	-0,59	-3,84	0,0346	Dtl	Mus musculus denticleless homolog (Drosophila) (Dtl), mRNA [NM_029766]
A_55_P2151822	-0,59	-4,14	0,0260	Plxnd1	Mus musculus plexin D1 (Plxnd1), mRNA [NM_026376]
A_52_P121	-0,59	-5,31	0,0106	Osgepl1	Mus musculus O-sialoglycoprotein endopeptidase-like 1 (Osgepl1), transcript variant 1, mRNA [NM_001285839]
A_55_P1983769	-0,59	-4,90	0,0143	Birc5	Mus musculus baculoviral IAP repeat-containing 5 (Birc5), transcript variant 3, mRNA [NM_001012273]
A_55_P2096081	-0,59	-3,68	0,0401	Myo5b	Mus musculus myosin VB (Myo5b), mRNA [NM_201600]
A_51_P237834	-0,59	-5,00	0,0132	Tmcc1	Mus musculus transmembrane and coiled coil domains 1 (Tmcc1), mRNA [NM_177412]
A_52_P75146	-0,59	-5,58	0,0090	Lymr2	Mus musculus LYR motif containing 2 (Lymr2), mRNA [NM_175364]
A_55_P1993719	-0,59	-3,56	0,0448	Tmem216	Mus musculus transmembrane protein 216 (Tmem216), transcript variant 2, mRNA [NM_026798]
A_55_P2068734	-0,59	-5,53	0,0092	Ccl27a	Mus musculus chemokine (C-C motif) ligand 27A (Ccl27a), transcript variant 1, mRNA [NM_001048179]
A_51_P170696	-0,59	-5,31	0,0106	Haus1	Mus musculus HAUS augmin-like complex, subunit 1 (Haus1), mRNA [NM_146089]
A_51_P273556	-0,59	-3,86	0,0338	Fam83d	Mus musculus family with sequence similarity 83, member D (Fam83d), mRNA [NM_027975]
A_52_P578521	-0,59	-5,29	0,0106	Cdip1	Mus musculus cell death inducing Trp53 target 1 (Cdip1), mRNA [NM_025670]
A_51_P457331	-0,59	-4,75	0,0158	Hmgn5	Mus musculus high-mobility group nucleosome binding domain 5 (Hmgn5), mRNA [NM_016710]
A_66_P133520	-0,59	-5,10	0,0122	Glmn	Mus musculus glomulin, FKBP associated protein (Glmn), transcript variant 1, mRNA [NM_133248]
A_55_P2067016	-0,59	-4,21	0,0244	Phykpl	Mus musculus 5-phosphohydroxy-L-lysine phospholyase (Phykpl), mRNA [NM_028398]
A_55_P2167908	-0,59	-3,79	0,0361	Ermard	PREDICTED: Mus musculus ER membrane associated RNA degradation (Ermard), transcript variant X17, misc. RNA [XR_385340]
A_52_P134924	-0,59	-4,76	0,0156	Wdr20	Mus musculus WD repeat domain 20 (Wdr20), mRNA [NM_027149]
A_55_P1954006	-0,59	-3,90	0,0325	Ldhb	Mus musculus lactate dehydrogenase B (Ldhb), mRNA [NM_008492]
A_51_P111757	-0,59	-6,37	0,0057	Asb1	Mus musculus ankyrin repeat and SOCS box-containing 1 (Asb1), transcript variant 1, mRNA [NM_001039126]
A_55_P2117741	-0,59	-4,22	0,0241	Nck2	Mus musculus non-catalytic region of tyrosine kinase adaptor protein 2 (Nck2), mRNA [NM_010879]
A_52_P24951	-0,59	-5,48	0,0095	Ado	Mus musculus 2-aminoethanethiol (cysteamine) dioxygenase (Ado), mRNA [NM_001005419]
A_55_P2012815	-0,59	-4,43	0,0204	Acvr2b	Mus musculus activin receptor IIB (Acvr2b), mRNA [NM_007397]
A_51_P154753	-0,59	-3,79	0,0361	Klc3	Mus musculus kinesin light chain 3 (Klc3), transcript variant 2, mRNA [NM_146182]
A_55_P1983773	-0,59	-3,54	0,0457	Birc5	Mus musculus baculoviral IAP repeat-containing 5 (Birc5), transcript variant 3, mRNA [NM_001012273]
A_55_P2184897	-0,60	-3,56	0,0445	Lbr	Mus musculus lamin B receptor (Lbr), mRNA [NM_133815]
A_55_P2115320	-0,60	-5,47	0,0096	Metap1d	Mus musculus methionyl aminopeptidase type 1D (mitochondrial) (Metap1d), mRNA [NM_025633]
A_51_P219325	-0,60	-4,66	0,0169	Ddx28	Mus musculus DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 (Ddx28), mRNA [NM_028038]
A_52_P475040	-0,60	-4,43	0,0203	Etaa1	Mus musculus Ewing tumor-associated antigen 1 (Etaa1), mRNA [NM_026576]
A_52_P252425	-0,60	-6,46	0,0055	2700062C07Rik	Mus musculus RIKEN cDNA 2700062C07 gene (2700062C07Rik), mRNA [NM_026529]
A_66_P115443	-0,60	-4,06	0,0278	Snx4	Mus musculus sorting nexin 4 (Snx4), mRNA [NM_080557]
A_52_P256817	-0,60	-3,91	0,0321	Zik1	Mus musculus zinc finger protein interacting with K protein 1 (Zik1), mRNA [NM_009577]
A_55_P2113066	-0,60	-5,67	0,0086	Zkscan5	Mus musculus zinc finger with KRAB and SCAN domains 5 (Zkscan5), transcript variant 1, mRNA [NM_016683]
A_52_P266459	-0,60	-3,84	0,0345	Ing2	Mus musculus inhibitor of growth family, member 2 (Ing2), mRNA [NM_023503]
A_51_P101228	-0,60	-6,87	0,0043	Gmeb2	Mus musculus glucocorticoid modulatory element binding protein 2 (Gmeb2), mRNA [NM_198169]
A_51_P424561	-0,60	-5,25	0,0109	Zfp93	Mus musculus zinc finger protein 93 (Zfp93), mRNA [NM_009567]
A_52_P175157	-0,60	-4,47	0,0197	Mef2a	Mus musculus myocyte enhancer factor 2A (Mef2a), transcript variant 5, mRNA [NM_001291196]

A_55_P2008576	-0,60	-3,87	0,0335	Ubr2	Mus musculus ubiquitin protein ligase E3 component n-recognin 2 (Ubr2), transcript variant 2, mRNA [NM_001177374]
A_55_P2031471	-0,60	-4,57	0,0182	Rufy4	Mus musculus RUN and FYVE domain containing 4 (Rufy4), transcript variant 2, mRNA [NM_001034060]
A_51_P328014	-0,60	-6,12	0,0065	Cops3	Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 3 (Arabidopsis thaliana) (Cops3), mRNA [NM_011991]
A_51_P359293	-0,60	-3,96	0,0308	Ubx2b	Mus musculus UBX domain protein 2B (Ubx2b), mRNA [NM_026534]
A_55_P2050426	-0,60	-3,58	0,0439	Ankrd50	Mus musculus ankyrin repeat domain 50 (Ankrd50), mRNA [NM_001167883]
A_52_P545831	-0,60	-4,21	0,0243	Tssc1	Mus musculus tumor suppressing subtransferable candidate 1 (Tssc1), mRNA [NM_201357]
A_55_P2026823	-0,60	-6,13	0,0065	Usp11	Mus musculus ubiquitin specific peptidase like 1 (Usp11), transcript variant 1, mRNA [NM_001115153]
A_52_P45834	-0,60	-4,15	0,0256	Pafah1b2	Mus musculus platelet-activating factor acetylhydrolase, isoform 1b, subunit 2 (Pafah1b2), mRNA [NM_008775]
A_55_P2327958	-0,60	-3,70	0,0392	Mtx3	Mus musculus metaxin 3 (Mtx3), mRNA [NM_001162945]
A_55_P2151138	-0,60	-6,82	0,0045	Dynl1f	Mus musculus dynein light chain Tctex-type 1F (Dynl1f), transcript variant 2, mRNA [NM_001199948]
A_55_P2112185	-0,60	-4,93	0,0139	Nhs1	Mus musculus NHS-like 1 (Nhs1), transcript variant 1, mRNA [NM_173390]
A_55_P2098539	-0,60	-3,46	0,0495	Itgb3bp	Mus musculus integrin beta 3 binding protein (beta3-endonexin) (Itgb3bp), mRNA [NM_026348]
A_51_P257675	-0,60	-4,38	0,0211	Tspyl4	Mus musculus TSPY-like 4 (Tspyl4), mRNA [NM_030203]
A_55_P2027240	-0,60	-5,25	0,0109	Engase	Mus musculus endo-beta-N-acetylglucosaminidase (Engase), mRNA [NM_172573]
A_55_P2467415	-0,60	-4,48	0,0195	B3galt6	Mus musculus UDP-Gal:betaGal beta 1,3-galactosyltransferase, polypeptide 6 (B3galt6), mRNA [NM_080445]
A_55_P2098305	-0,60	-3,68	0,0401	Coq5	Mus musculus coenzyme Q5 homolog, methyltransferase (yeast) (Coq5), mRNA [NM_026504]
A_51_P312550	-0,60	-5,37	0,0102	Nup188	Mus musculus nucleoporin 188 (Nup188), mRNA [NM_198304]
A_55_P1970578	-0,60	-5,45	0,0097	Aamdc	Mus musculus adipogenesis associated Mth938 domain containing (Aamdc), transcript variant 1, mRNA [NM_001177945]
A_55_P2133125	-0,60	-4,44	0,0201	D930015E06 Rik	Mus musculus RIKEN cDNA D930015E06 gene (D930015E06Rik), mRNA [NM_172681]
A_51_P487228	-0,60	-6,11	0,0066	B9d2	Mus musculus B9 protein domain 2 (B9d2), mRNA [NM_172148]
A_51_P253803	-0,60	-3,45	0,0497	Mki67	Mus musculus antigen identified by monoclonal antibody Ki 67 (Mki67), mRNA [NM_001081117]
A_55_P1980636	-0,60	-4,66	0,0169	Aurka	Mus musculus aurora kinase A (Aurka), transcript variant 1, mRNA [NM_011497]
A_51_P296328	-0,60	-3,94	0,0314	Ahcy11	Mus musculus S-adenosylhomocysteine hydrolase-like 1 (Ahcy11), mRNA [NM_145542]
A_51_P467668	-0,61	-3,96	0,0307	Ick	Mus musculus intestinal cell kinase (Ick), transcript variant 2, mRNA [NM_019987]
A_55_P2350617	-0,61	-4,26	0,0235	Slc37a2	Mus musculus solute carrier family 37 (glycerol-3-phosphate transporter), member 2 (Slc37a2), transcript variant 1, mRNA [NM_001145960]
A_66_P139664	-0,61	-5,00	0,0132	Ppp2r5c	Mus musculus protein phosphatase 2, regulatory subunit B', gamma (Ppp2r5c), transcript variant 4, mRNA [NM_001135001]
A_52_P157274	-0,61	-4,44	0,0201	Abi1	Mus musculus abl-interactor 1 (Abi1), transcript variant 1, mRNA [NM_001077190]
A_55_P2149515	-0,61	-4,11	0,0267	Rsrc1	Mus musculus arginine/serine-rich coiled-coil 1 (Rsrc1), mRNA [NM_025822]
A_55_P1987988	-0,61	-4,17	0,0253	Atg2b	Mus musculus autophagy related 2B (Atg2b), mRNA [NM_029654]
A_51_P281582	-0,61	-4,67	0,0168	Lrrc42	Mus musculus leucine rich repeat containing 42 (Lrrc42), mRNA [NM_029985]
A_52_P377326	-0,61	-3,59	0,0436	Plekhb2	Mus musculus pleckstrin homology domain containing, family B (evectins) member 2 (Plekhb2), transcript variant 1, mRNA [NM_145516]
A_55_P2043996	-0,61	-4,30	0,0229	Cops7a	Mus musculus COP9 (constitutive photomorphogenic) homolog, subunit 7a (Arabidopsis thaliana) (Cops7a), transcript variant 2, mRNA [NM_001164089]
A_51_P105068	-0,61	-3,47	0,0487	Lypd6b	Mus musculus LY6/PLAUR domain containing 6B (Lypd6b), mRNA [NM_027990]
A_51_P168395	-0,61	-4,53	0,0189	Ttc30a1	Mus musculus tetratricopeptide repeat domain 30A1 (Ttc30a1), mRNA [NM_030188]
A_51_P145772	-0,61	-7,56	0,0028	Rnf113a2	Mus musculus ring finger protein 113A2 (Rnf113a2), mRNA [NM_025525]
A_55_P2186558	-0,61	-3,73	0,0382	Tmem242	Mus musculus transmembrane protein 242 (Tmem242), mRNA [NM_027457]
A_51_P330369	-0,61	-6,17	0,0064	Ssx2ip	Mus musculus synovial sarcoma, X breakpoint 2 interacting protein (Ssx2ip), transcript variant 1, mRNA [NM_138744]
A_51_P218518	-0,61	-4,68	0,0166	Fiz1	Mus musculus Fli3 interacting zinc finger protein 1 (Fiz1), transcript variant 2, mRNA [NM_011813]
A_55_P1968240	-0,61	-4,55	0,0185	Cbr4	Mus musculus carbonyl reductase 4 (Cbr4), mRNA [NM_145595]
A_52_P242445	-0,61	-4,29	0,0229	Fam149b	Mus musculus family with sequence similarity 149, member B (Fam149b), transcript variant 1, mRNA [NM_001024512]
A_55_P2184905	-0,61	-4,40	0,0208	Rpap2	Mus musculus RNA polymerase II associated protein 2 (Rpap2), transcript variant 4, mRNA [NM_001289569]
A_51_P258766	-0,61	-5,60	0,0089	Smo	Mus musculus smoothened homolog (Drosophila) (Smo), mRNA [NM_176996]
A_51_P493270	-0,61	-4,04	0,0286	Mrps5	Mus musculus mitochondrial ribosomal protein S5 (Mrps5), mRNA [NM_029963]
A_51_P438701	-0,61	-5,60	0,0089	Atpaf2	Mus musculus ATP synthase mitochondrial F1 complex assembly factor 2 (Atpaf2), mRNA [NM_145427]
A_66_P122433	-0,61	-3,54	0,0459	Fam228a	Mus musculus family with sequence similarity 228, member A (Fam228a), mRNA [NM_029107]
A_52_P625808	-0,61	-5,31	0,0106	Sf3b1	Mus musculus splicing factor 3b, subunit 1 (Sf3b1), mRNA [NM_031179]

A_55_P1972763	-0,61	-4,05	0,0282	0610037L13 Rik	RIKEN cDNA 0610037L13 gene [Source:MGI Symbol;Acc:MGI:1921348] [ENSMUST00000132417]
A_52_P8043	-0,61	-4,17	0,0253	Srsf2	Mus musculus serine/arginine-rich splicing factor 2 (Srsf2), mRNA [NM_011358]
A_55_P2050688	-0,61	-5,10	0,0122	Zbed4	Mus musculus zinc finger, BED domain containing 4 (Zbed4), mRNA [NM_181412]
A_52_P9260	-0,61	-5,68	0,0085	Fam149b	Mus musculus family with sequence similarity 149, member B (Fam149b), transcript variant 1, mRNA [NM_001024512]
A_55_P2110362	-0,61	-5,46	0,0097	Zfp637	Mus musculus zinc finger protein 637 (Zfp637), mRNA [NM_177684]
A_52_P410732	-0,61	-4,07	0,0277	Cnot7	Mus musculus CCR4-NOT transcription complex, subunit 7 (Cnot7), transcript variant 1, mRNA [NM_011135]
A_52_P278354	-0,61	-5,87	0,0076	Bmp7	Mus musculus bone morphogenetic protein 7 (Bmp7), mRNA [NM_007557]
A_55_P1969431	-0,61	-4,37	0,0214	Lyrm5	Mus musculus LYR motif containing 5 (Lyrm5), transcript variant 1, mRNA [NM_001163628]
A_66_P131110	-0,62	-3,61	0,0426	Zfp473	Mus musculus zinc finger protein 473 (Zfp473), transcript variant 1, mRNA [NM_001289836]
A_55_P2254968	-0,62	-4,15	0,0258	BB212172	BB212172 RIKEN full-length enriched, 0 day neonate thymus Mus musculus cDNA clone A430109C16 3'. [BB212172]
A_52_P437734	-0,62	-4,16	0,0254	Fbxo28	Mus musculus F-box protein 28 (Fbxo28), mRNA [NM_175127]
A_55_P2154690	-0,62	-4,14	0,0260	Smarca4	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4 (Smarca4), transcript variant 3, mRNA [NM_001174079]
A_52_P238816	-0,62	-6,72	0,0047	Ppt2	Mus musculus palmitoyl-protein thioesterase 2 (Ppt2), mRNA [NM_019441]
A_55_P2111148	-0,62	-5,13	0,0120	Gemin5	Mus musculus gem (nuclear organelle) associated protein 5 (Gemin5), transcript variant 1, mRNA [NM_001166669]
A_55_P1982744	-0,62	-4,53	0,0189	Gm8556	PREDICTED: Mus musculus predicted gene 8556 (Gm8556), mRNA [XM_006508439]
A_52_P28775	-0,62	-6,29	0,0061	Engase	Mus musculus endo-beta-N-acetylglucosaminidase (Engase), mRNA [NM_172573]
A_52_P80593	-0,62	-5,96	0,0072	Pole3	polymerase (DNA directed), epsilon 3 (p17 subunit) [Source:MGI Symbol;Acc:MGI:1933378] [ENSMUST00000128100]
A_55_P2040743	-0,62	-4,18	0,0251	Zwilch	Mus musculus zwilch kinetochore protein (Zwilch), mRNA [NM_026507]
A_55_P2148531	-0,62	-4,51	0,0191	Pithd1	Mus musculus PITH (C-terminal proteasome-interacting domain of thioredoxin-like) domain containing 1 (Pithd1), mRNA [NM_025411]
A_55_P2145496	-0,62	-5,08	0,0124	Wdr45	Mus musculus WD repeat domain 45 (Wdr45), transcript variant 1, mRNA [NM_001290792]
A_55_P2058737	-0,62	-4,32	0,0224	Mex3d	Mus musculus mex3 homolog D (C. elegans) (Mex3d), mRNA [NM_198615]
A_52_P20048	-0,62	-4,29	0,0229	Tcf12	Mus musculus transcription factor 12 (Tcf12), transcript variant 1, mRNA [NM_011544]
A_52_P58471	-0,62	-4,85	0,0147	Tmem199	Mus musculus transmembrane protein 199 (Tmem199), mRNA [NM_199199]
A_55_P2070546	-0,62	-5,22	0,0112	1700037C18 Rik	Mus musculus RIKEN cDNA 1700037C18 gene (1700037C18Rik), mRNA [NM_028484]
A_51_P334789	-0,62	-4,15	0,0257	Nudt16	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 16 (Nudt16), mRNA [NM_029385]
A_52_P323658	-0,62	-5,17	0,0116	Zfp955a	Mus musculus zinc finger protein 955A (Zfp955a), mRNA [NM_029952]
A_55_P2128303	-0,62	-5,71	0,0084	Ids	Mus musculus iduronate 2-sulfatase (Ids), mRNA [NM_010498]
A_52_P494372	-0,62	-3,79	0,0362	Zxdc	Mus musculus ZXD family zinc finger C (Zxdc), transcript variant 2, mRNA [NM_173002]
A_52_P87964	-0,62	-5,48	0,0095	Pla2g12a	Mus musculus phospholipase A2, group XIA (Pla2g12a), transcript variant 2, mRNA [NM_183423]
A_55_P2011545	-0,62	-3,86	0,0338	Pyroxd1	Mus musculus pyridine nucleotide-disulphide oxidoreductase domain 1 (Pyroxd1), mRNA [NM_183165]
A_52_P377416	-0,62	-3,67	0,0403	Disp1	Mus musculus dispatched homolog 1 (Drosophila) (Disp1), transcript variant 1, mRNA [NM_026866]
A_52_P75465	-0,62	-5,62	0,0088	Gdpd1	Mus musculus glycerophosphodiester phosphodiesterase domain containing 1 (Gdpd1), mRNA [NM_025638]
A_65_P08867	-0,62	-3,87	0,0335	Zbtb37	zinc finger and BTB domain containing 37 [Source:MGI Symbol;Acc:MGI:2444467] [ENSMUST00000160056]
A_51_P271603	-0,62	-4,04	0,0283	Hps1	Mus musculus Hermansky-Pudlak syndrome 1 homolog (human) (Hps1), mRNA [NM_019424]
A_55_P1990785	-0,62	-3,50	0,0475	Zranb3	Mus musculus zinc finger, RAN-binding domain containing 3 (Zranb3), transcript variant 1, mRNA [NM_027678]
A_52_P90124	-0,62	-4,70	0,0164	Prep	Mus musculus prolyl endopeptidase (Prep), mRNA [NM_011156]
A_51_P292490	-0,62	-4,51	0,0191	Ttbk2	Mus musculus tau tubulin kinase 2 (Ttbk2), transcript variant 2, mRNA [NM_001024856]
A_51_P396297	-0,62	-4,61	0,0176	Hsd1l	Mus musculus hydroxysteroid dehydrogenase like 1 (Hsd1l), mRNA [NM_175185]
A_66_P118233	-0,62	-7,59	0,0028	Hnrnpa0	Mus musculus heterogeneous nuclear ribonucleoprotein A0 (Hnrnpa0), mRNA [NM_029872]
A_51_P281246	-0,62	-6,71	0,0047	Cep57	Mus musculus centrosomal protein 57 (Cep57), transcript variant 1, mRNA [NM_026665]
A_55_P2011436	-0,62	-6,02	0,0070	Gm11223	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4932436F18 product:leukemia-associated gene, full insert sequence. [AK030082]
A_51_P114028	-0,62	-4,57	0,0183	Bcl7c	Mus musculus B cell CLL/lymphoma 7C (Bcl7c), mRNA [NM_009746]
A_52_P413855	-0,62	-4,10	0,0270	Slc35a3	Mus musculus solute carrier family 35 (UDP-N-acetylglucosamine (UDP-GlcNAc) transporter), member 3 (Slc35a3), mRNA [NM_144902]
A_52_P582858	-0,62	-6,06	0,0068	Dgkd	Mus musculus diacylglycerol kinase, delta (Dgkd), mRNA [NM_177646]
A_52_P674357	-0,62	-5,31	0,0106	Thtpa	Mus musculus thiamine triphosphatase (Thtpa), mRNA [NM_153083]



A_55_P2021560	-0,62	-4,14	0,0259	9330133014 Rik	Mus musculus RIKEN cDNA 9330133014 gene (9330133014Rik), long non-coding RNA [NR_045696]
A_52_P242251	-0,62	-4,45	0,0200	Diexf	Mus musculus digestive organ expansion factor homolog (zebrafish) (Diexf), mRNA [NM_145415]
A_55_P2167035	-0,62	-3,87	0,0336	Zfand1	Mus musculus zinc finger, AN1-type domain 1 (Zfand1), mRNA [NM_025512]
A_55_P2121231	-0,62	-3,68	0,0401	Nipbl	Mus musculus Nipped-B homolog (Drosophila) (Nipbl), transcript variant a, mRNA [NM_027707]
A_51_P127334	-0,63	-3,63	0,0421	Zfp91	Mus musculus adult male cecum cDNA, RIKEN full-length enriched library, clone:9130014108 product:zinc finger protein 91 [MGI:104854, full insert sequence. [AK018620]
A_52_P42380	-0,63	-3,71	0,0388	Tmem106c	Mus musculus transmembrane protein 106C (Tmem106c), transcript variant 1, mRNA [NM_201359]
A_52_P217675	-0,63	-4,33	0,0222	Ankrd32	Mus musculus ankyrin repeat domain 32 (Ankrd32), mRNA [NM_134071]
A_55_P2107542	-0,63	-3,75	0,0377	Pde4b	Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030072C22 product:phosphodiesterase 4B, cAMP specific, full insert sequence. [AK051102]
A_55_P2043322	-0,63	-5,72	0,0084	Rnf26	Mus musculus ring finger protein 26 (Rnf26), mRNA [NM_153762]
A_55_P2106255	-0,63	-3,90	0,0324	Mbnl3	Mus musculus muscleblind-like 3 (Drosophila) (Mbnl3), mRNA [NM_134163]
A_51_P273508	-0,63	-4,19	0,0248	Ube2g1	Mus musculus ubiquitin-conjugating enzyme E2G 1 (Ube2g1), mRNA [NM_025985]
A_55_P2073582	-0,63	-3,68	0,0401	Ndufb11	Mus musculus NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 11 (Ndufb11), mRNA [NM_019435]
A_51_P299739	-0,63	-4,81	0,0151	D10Wsu102e	Mus musculus DNA segment, Chr 10, Wayne State University 102, expressed (D10Wsu102e), mRNA [NM_026579]
A_51_P505521	-0,63	-4,08	0,0275	Hist1h4i	Mus musculus histone cluster 1, H4i, mRNA (cDNA clone IMAGE:4205460), with apparent retained intron. [BC019757]
A_55_P1989986	-0,63	-7,49	0,0029	Fam149b	Mus musculus family with sequence similarity 149, member B (Fam149b), transcript variant 2, mRNA [NM_172379]
A_51_P406429	-0,63	-4,89	0,0144	Pdk1	Mus musculus pyruvate dehydrogenase kinase, isoenzyme 1 (Pdk1), mRNA [NM_172665]
A_55_P2037662	-0,63	-4,08	0,0274	Atp1a3	Mus musculus ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 3 polypeptide (Atp1a3), mRNA [NM_001290469]
A_52_P244964	-0,63	-4,55	0,0186	Akap11	Mus musculus A kinase (PRKA) anchor protein 11 (Akap11), mRNA [NM_001164503]
A_65_P19112	-0,63	-3,71	0,0389	Zfp397	Mus musculus zinc finger protein 397 (Zfp397), mRNA [NM_027007]
A_51_P193000	-0,63	-6,70	0,0048	Bbs4	Mus musculus Bardet-Biedl syndrome 4 (human) (Bbs4), mRNA [NM_175325]
A_51_P337195	-0,63	-3,58	0,0437	Pipox	Mus musculus pipecolic acid oxidase (Pipox), mRNA [NM_008952]
A_52_P66313	-0,63	-5,12	0,0121	Psmf1	Mus musculus proteasome (prosome, macropain) inhibitor subunit 1 (Psmf1), mRNA [NM_212446]
A_51_P425696	-0,63	-4,78	0,0155	Nt5c2	Mus musculus 5'-nucleotidase, cytosolic II (Nt5c2), transcript variant 3, mRNA [NM_029810]
A_51_P288026	-0,63	-3,63	0,0419	Haus6	Mus musculus HAUS augmin-like complex, subunit 6 (Haus6), mRNA [NM_173400]
A_51_P142923	-0,63	-4,31	0,0225	Chka	Mus musculus choline kinase alpha (Chka), transcript variant 1, mRNA [NM_013490]
A_51_P180140	-0,63	-4,33	0,0223	Hist1h2ba	Mus musculus histone cluster 1, H2ba (Hist1h2ba), mRNA [NM_175663]
A_55_P2123942	-0,63	-3,75	0,0377	Lmbrd1	Mus musculus LMBR1 domain containing 1 (Lmbrd1), mRNA [NM_026719]
A_66_P111987	-0,63	-4,06	0,0279	Brwd3	Mus musculus bromodomain and WD repeat domain containing 3 (Brwd3), mRNA [NM_001081477]
A_55_P2083764	-0,63	-4,16	0,0254	Rbm12	RNA binding motif protein 12 [Source:MGI Symbol;Acc:MGI:1922960] [ENSMUST00000109604]
A_55_P2139625	-0,63	-6,35	0,0058	Gtf2a2	Mus musculus general transcription factor II A, 2 (Gtf2a2), transcript variant 1, mRNA [NM_001282083]
A_52_P123738	-0,63	-4,75	0,0158	Rnf41	Mus musculus ring finger protein 41 (Rnf41), transcript variant 1, mRNA [NM_001164237]
A_66_P105032	-0,63	-4,87	0,0145	Gm13889	Mus musculus predicted gene 13889 (Gm13889), mRNA [NM_001145034]
A_55_P2003353	-0,63	-5,52	0,0093	Gemin8	Mus musculus gem (nuclear organelle) associated protein 8 (Gemin8), mRNA [NM_146238]
A_51_P224445	-0,63	-6,43	0,0056	Gpn3	Mus musculus GPN-loop GTPase 3 (Gpn3), mRNA [NM_024216]
A_52_P869802	-0,63	-4,38	0,0211	Thoc3	Mus musculus THO complex 3 (Thoc3), mRNA [NM_028597]
A_52_P215539	-0,63	-6,30	0,0060	C030006K11 Rik	Mus musculus RIKEN cDNA C030006K11 gene (C030006K11Rik), transcript variant 2, mRNA [NM_176828]
A_51_P350048	-0,63	-4,86	0,0147	Gstt2	Mus musculus glutathione S-transferase, theta 2 (Gstt2), mRNA [NM_010361]
A_55_P2057065	-0,63	-6,08	0,0067	Gtf3c5	Mus musculus general transcription factor IIIC, polypeptide 5 (Gtf3c5), transcript variant 1, mRNA [NM_001290484]
A_51_P344566	-0,63	-5,15	0,0119	Plk1	Mus musculus polo-like kinase 1 (Plk1), mRNA [NM_011121]
A_55_P2086746	-0,63	-4,77	0,0156	Fam3a	Mus musculus family with sequence similarity 3, member A (Fam3a), mRNA [NM_025473]
A_51_P340355	-0,63	-4,69	0,0165	Tarsl2	Mus musculus threonyl-tRNA synthetase-like 2 (Tarsl2), mRNA [NM_172310]
A_51_P217498	-0,63	-4,08	0,0275	Slc2a4	Mus musculus solute carrier family 2 (facilitated glucose transporter), member 4 (Slc2a4), mRNA [NM_009204]
A_55_P2098354	-0,63	-6,06	0,0068	Shf	Mus musculus Src homology 2 domain containing F (Shf), mRNA [NM_001013829]
A_52_P100199	-0,63	-4,24	0,0239	Abhd10	Mus musculus abhydrolase domain containing 10 (Abhd10), transcript variant 1, mRNA [NM_172511]
A_51_P288549	-0,63	-3,99	0,0298	Jmjd7	Mus musculus jumoni domain containing 7 (Jmjd7), mRNA [NM_001114637]
A_51_P285487	-0,63	-4,21	0,0245	Rnf113a1	Mus musculus ring finger protein 113A1 (Rnf113a1), mRNA [NM_153503]

A_52_P589119	-0,63	-4,87	0,0146	Rhno1	Mus musculus RAD9-HUS1-RAD1 interacting nuclear orphan 1 (Rhno1), transcript variant 1, long non-coding RNA [NR_027360]
A_55_P2139083	-0,64	-5,49	0,0095	Gm15401	Mus musculus predicted gene 15401 (Gm15401), transcript variant 1, long non-coding RNA [NR_040421]
A_55_P1989772	-0,64	-4,38	0,0211	Sqrdl	Mus musculus sulfide quinone reductase-like (yeast) (Sqrdl), transcript variant 1, mRNA [NM_021507]
A_55_P2066559	-0,64	-4,79	0,0154	Endou	Mus musculus endonuclease, polyU-specific (Endou), transcript variant 2, mRNA [NM_001168693]
A_55_P2133255	-0,64	-3,56	0,0446	Mad2l1	Mus musculus MAD2 mitotic arrest deficient-like 1 (Mad2l1), mRNA [NM_019499]
A_51_P294340	-0,64	-3,46	0,0494	Comm8	Mus musculus COMM domain containing 8 (Comm8), mRNA [NM_178599]
A_52_P574697	-0,64	-5,94	0,0072	Khdrbs1	Mus musculus KH domain containing, RNA binding, signal transduction associated 1 (Khdrbs1), transcript variant 1, mRNA [NM_011317]
A_65_P03606	-0,64	-4,25	0,0237	Rpap2	Mus musculus RNA polymerase II associated protein 2 (Rpap2), transcript variant 3, mRNA [NM_001163462]
A_52_P365896	-0,64	-4,18	0,0251	Pa2g4	Mus musculus proliferation-associated 2G4 (Pa2g4), mRNA [NM_011119]
A_66_P117189	-0,64	-4,15	0,0256	Rad54l2	Mus musculus RAD54 like 2 (S. cerevisiae) (Rad54l2), mRNA [NM_030730]
A_52_P48546	-0,64	-3,62	0,0422	Rnf41	Mus musculus ring finger protein 41 (Rnf41), transcript variant 2, mRNA [NM_026259]
A_52_P200207	-0,64	-5,60	0,0089	Rmnd5a	Mus musculus required for meiotic nuclear division 5 homolog A (S. cerevisiae) (Rmnd5a), mRNA [NM_024288]
A_52_P6798	-0,64	-4,49	0,0194	Rbm22	Mus musculus RNA binding motif protein 22 (Rbm22), mRNA [NM_025776]
A_51_P202074	-0,64	-4,95	0,0138	Ncapd2	Mus musculus non-SMC condensin I complex, subunit D2 (Ncapd2), mRNA [NM_146171]
A_52_P830312	-0,64	-4,01	0,0292	Iba57	Mus musculus IBA57, iron-sulfur cluster assembly homolog (S. cerevisiae) (Iba57), transcript variant 1, mRNA [NM_173785]
A_55_P1952420	-0,64	-6,39	0,0057	Odf2	Mus musculus outer dense fiber of sperm tails 2 (Odf2), transcript variant 4, mRNA [NM_001177659]
A_55_P1960916	-0,64	-5,86	0,0076	Egln3	Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA [NM_028133]
A_51_P265106	-0,64	-5,55	0,0091	Dlat	Mus musculus dihydrolipoamide S-acetyltransferase (E2 component of pyruvate dehydrogenase complex) (Dlat), mRNA [NM_145614]
A_55_P1959515	-0,64	-4,31	0,0227	Cep135	Mus musculus centrosomal protein 135 (Cep135), mRNA [NM_199032]
A_51_P222359	-0,64	-3,82	0,0353	Emilin1	Mus musculus elastin microfibril interfacer 1 (Emilin1), mRNA [NM_133918]
A_55_P2182810	-0,64	-4,69	0,0165	Arl16	Mus musculus ADP-ribosylation factor-like 16 (Arl16), mRNA [NM_197995]
A_55_P1964327	-0,64	-5,71	0,0084	Ppwd1	Mus musculus peptidylprolyl isomerase domain and WD repeat containing 1 (Ppwd1), mRNA [NM_172807]
A_65_P06611	-0,64	-5,49	0,0095	Wtap	Mus musculus Wilms tumour 1-associating protein (Wtap), transcript variant 2, mRNA [NM_175394]
A_55_P1974347	-0,64	-4,73	0,0161	Fam126b	Mus musculus family with sequence similarity 126, member B (Fam126b), mRNA [NM_172513]
A_51_P114456	-0,64	-3,61	0,0426	Tceanc2	Mus musculus transcription elongation factor A (SII) N-terminal and central domain containing 2 (Tceanc2), mRNA [NM_025617]
A_55_P2461067	-0,64	-4,78	0,0155	Guf1	Mus musculus GUF1 GTPase homolog (S. cerevisiae) (Guf1), mRNA [NM_172711]
A_51_P120615	-0,64	-5,58	0,0090	Rabl3	Mus musculus RAB, member RAS oncogene family-like 3 (Rabl3), mRNA [NM_001042499]
A_55_P1993789	-0,64	-7,30	0,0033	Hmgn2	Mus musculus high mobility group nucleosomal binding domain 2 (Hmgn2), mRNA [NM_016957]
A_52_P283802	-0,64	-4,38	0,0212	Tapt1	Mus musculus transmembrane anterior posterior transformation 1 (Tapt1), mRNA [NM_173764]
A_55_P2105286	-0,64	-4,48	0,0195	Lrrc56	Mus musculus leucine rich repeat containing 56 (Lrrc56), transcript variant 1, mRNA [NM_001172064]
A_51_P101573	-0,64	-7,19	0,0035	Klc4	Mus musculus kinesin light chain 4 (Klc4), mRNA [NM_029091]
A_52_P568781	-0,65	-3,83	0,0349	Sec63	Mus musculus SEC63-like (S. cerevisiae) (Sec63), mRNA [NM_153055]
A_55_P2061341	-0,65	-4,51	0,0191	Ift74	Mus musculus intraflagellar transport 74 (Ift74), transcript variant 1, mRNA [NM_026319]
A_55_P1987805	-0,65	-3,81	0,0357	Rps6ka5	Mus musculus ribosomal protein S6 kinase, polypeptide 5 (Rps6ka5), mRNA [NM_153587]
A_51_P435817	-0,65	-4,01	0,0293	Zbtb8a	Mus musculus zinc finger and BTB domain containing 8a (Zbtb8a), mRNA [NM_028603]
A_55_P2080703	-0,65	-4,28	0,0231	Cstf2	Mus musculus cleavage stimulation factor, 3' pre-RNA subunit 2 (Cstf2), transcript variant 3, mRNA [NM_001290399]
A_55_P1976682	-0,65	-6,09	0,0067	4932431P20 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4932431P20 product:nonhistone chromosomal protein HMG-1 homolog [Bos primigenius taurus], full insert sequence. [AK016539]
A_51_P282227	-0,65	-4,84	0,0149	As3mt	Mus musculus arsenic (+3 oxidation state) methyltransferase (As3mt), mRNA [NM_020577]
A_51_P121302	-0,65	-6,69	0,0048	Them4	Mus musculus thioesterase superfamily member 4 (Them4), mRNA [NM_029431]
A_51_P286373	-0,65	-6,55	0,0052	Ttl12	Mus musculus tubulin tyrosine ligase-like family, member 12 (Ttl12), mRNA [NM_183017]
A_65_P02327	-0,65	-5,06	0,0126	Pogk	Mus musculus pogo transposable element with KRAB domain (Pogk), transcript variant 1, mRNA [NM_175170]
A_51_P208769	-0,65	-8,33	0,0017	Metrn	Mus musculus meteorin, glial cell differentiation regulator (Metrn), mRNA [NM_133719]
A_55_P1991911	-0,65	-4,69	0,0165	LOC102641638	PREDICTED: Mus musculus high mobility group protein B1-like (LOC102641638), mRNA [XM_006544804]
A_52_P44011	-0,65	-3,61	0,0426	Dcaf10	Mus musculus DDB1 and CUL4 associated factor 10 (Dcaf10), mRNA [NM_153167]
A_55_P2166572	-0,65	-6,20	0,0063	Strbp	Mus musculus spermatid perinuclear RNA binding protein (Strbp), mRNA [NM_009261]



A_52_P625683	-0,65	-5,02	0,0130	Pxmp4	Mus musculus peroxisomal membrane protein 4 (Pxmp4), mRNA [NM_021534]
A_55_P2011220	-0,65	-4,16	0,0254	Armcx1	Mus musculus armadillo repeat containing, X-linked 1 (Armcx1), transcript variant 1, mRNA [NM_001166377]
A_52_P256426	-0,65	-4,18	0,0251	Gm9182	PREDICTED: Mus musculus predicted gene 9182 (Gm9182), partial mRNA [XM_003084858]
A_52_P576837	-0,65	-4,71	0,0162	Cep44	Mus musculus centrosomal protein 44 (Cep44), mRNA [NM_001009951]
A_51_P140211	-0,65	-4,50	0,0193	Ndufv3	Mus musculus NADH dehydrogenase (ubiquinone) flavoprotein 3 (Ndufv3), transcript variant 1, mRNA [NM_030087]
A_51_P108935	-0,65	-4,71	0,0162	Iars2	Mus musculus isoleucine-tRNA synthetase 2, mitochondrial (Iars2), mRNA [NM_198653]
A_55_P2225082	-0,65	-5,40	0,0101	Mettl4	PREDICTED: Mus musculus methyltransferase like 4 (Mettl4), transcript variant X1, mRNA [XM_006525105]
A_51_P494863	-0,65	-4,23	0,0241	Vmac	Mus musculus vimentin-type intermediate filament associated coiled-coil protein (Vmac), transcript variant 1, mRNA [NM_178926]
A_51_P199899	-0,65	-5,63	0,0088	Fto	Mus musculus fat mass and obesity associated (Fto), mRNA [NM_011936]
A_55_P1998656	-0,65	-4,53	0,0189	Entpd5	Mus musculus ectonucleoside triphosphate diphosphohydrolase 5 (Entpd5), transcript variant 2, mRNA [NM_001026214]
A_66_P136259	-0,65	-3,62	0,0422	Rbm4b	Mus musculus RNA binding motif protein 4B (Rbm4b), mRNA [NM_025717]
A_55_P1984366	-0,65	-5,75	0,0083	Cdad1	Mus musculus cytidine and dCMP deaminase domain containing 1 (Cdad1), transcript variant 3, mRNA [NM_001168536]
A_55_P2099390	-0,66	-3,69	0,0394	Ranbp9	Mus musculus RAN binding protein 9 (Ranbp9), mRNA [NM_019930]
A_55_P2021792	-0,66	-4,47	0,0198	Dyrk1b	Mus musculus dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1b (Dyrk1b), transcript variant 1, mRNA [NM_001037957]
A_51_P303749	-0,66	-4,00	0,0294	Depdc1b	Mus musculus DEP domain containing 1B (Depdc1b), mRNA [NM_178683]
A_51_P341177	-0,66	-4,94	0,0139	Ddah2	Mus musculus dimethylarginine dimethylaminohydrolase 2 (Ddah2), transcript variant 2, mRNA [NM_016765]
A_55_P2002050	-0,66	-3,71	0,0389	Scgb2b24	Mus musculus secretoglobin, family 2B, member 24 (Scgb2b24), mRNA [NM_177446]
A_66_P104312	-0,66	-6,40	0,0056	Pdcl	Mus musculus phosducin-like (Pdcl), mRNA [NM_026176]
A_55_P2129309	-0,66	-4,05	0,0281	LOC102636048	PREDICTED: Mus musculus uncharacterized LOC102636048 (LOC102636048), transcript variant X1, ncRNA [XR_380269]
A_55_P1961531	-0,66	-5,62	0,0088	Tmem194	Mus musculus transmembrane protein 194 (Tmem194), transcript variant 1, mRNA [NM_001113211]
A_51_P117109	-0,66	-5,10	0,0122	Ilvbl	Mus musculus ilvB (bacterial acetolactate synthase)-like (Ilvbl), mRNA [NM_173751]
A_52_P138723	-0,66	-3,95	0,0312	Edc3	Mus musculus enhancer of mRNA decapping 3 homolog (S. cerevisiae) (Edc3), mRNA [NM_153799]
A_55_P2078246	-0,66	-4,23	0,0240	Ppp1r10	Mus musculus protein phosphatase 1, regulatory subunit 10 (Ppp1r10), mRNA [NM_001163818]
A_52_P389230	-0,66	-5,10	0,0122	Smarcc2	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2 (Smarcc2), transcript variant 3, mRNA [NM_198160]
A_55_P2067251	-0,66	-6,25	0,0061	Tmpo	Mus musculus thymopoietin (Tmpo), transcript variant 3, mRNA [NM_001080129]
A_51_P155073	-0,66	-4,86	0,0146	Nudt14	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 14 (Nudt14), mRNA [NM_025399]
A_55_P1994939	-0,66	-4,73	0,0160	Hmgb2	Mus musculus high mobility group box 2 (Hmgb2), mRNA [NM_008252]
A_55_P2127659	-0,66	-4,24	0,0239	Mtmr2	Mus musculus myotubularin related protein 2 (Mtmr2), transcript variant 1, mRNA [NM_023858]
A_55_P2149951	-0,66	-4,36	0,0216	Prx	Mus musculus periaxin (Prx), transcript variant 2, mRNA [NM_019412]
A_51_P310576	-0,66	-3,95	0,0312	Smim8	Mus musculus small integral membrane protein 8 (Smim8), mRNA [NM_025471]
A_55_P2028804	-0,66	-3,97	0,0302	Uchl3	Mus musculus ubiquitin carboxyl-terminal esterase L3 (ubiquitin thiolesterase) (Uchl3), mRNA [NM_016723]
A_51_P433584	-0,66	-4,96	0,0136	Bcas3	Mus musculus breast carcinoma amplified sequence 3 (Bcas3), transcript variant 1, mRNA [NM_138681]
A_51_P393067	-0,66	-5,37	0,0102	Ap4m1	Mus musculus adaptor-related protein complex AP-4, mu 1 (Ap4m1), mRNA [NM_021392]
A_52_P317393	-0,66	-6,32	0,0059	Gpr56	Mus musculus G protein-coupled receptor 56 (Gpr56), transcript variant 2, mRNA [NM_018882]
A_55_P2110245	-0,66	-3,65	0,0410	Figl1	Mus musculus fidgetin-like 1 (Figl1), transcript variant 1, mRNA [NM_001163359]
A_55_P2115297	-0,66	-7,39	0,0031	Ap3s1	Mus musculus adaptor-related protein complex 3, sigma 1 subunit (Ap3s1), mRNA [NM_009681]
A_52_P671769	-0,66	-4,60	0,0178	Arhgap18	Mus musculus Rho GTPase activating protein 18 (Arhgap18), mRNA [NM_176837]
A_52_P251183	-0,66	-5,11	0,0122	Tmem177	Mus musculus transmembrane protein 177 (Tmem177), mRNA [NM_175106]
A_55_P2044488	-0,67	-3,60	0,0429	Gm10766	predicted gene 10766 [Source:MGI Symbol;Acc:MGI:3642134] [ENSMUST00000099407]
A_51_P128575	-0,67	-4,59	0,0178	Scgb1a1	Mus musculus secretoglobin, family 1A, member 1 (uteroglobin) (Scgb1a1), mRNA [NM_011681]
A_52_P509906	-0,67	-3,96	0,0306	Ift172	Mus musculus intraflagellar transport 172 (Ift172), mRNA [NM_026298]
A_51_P315634	-0,67	-4,91	0,0141	Nedd1	Mus musculus neural precursor cell expressed, developmentally down-regulated gene 1 (Nedd1), mRNA [NM_008682]
A_55_P2025562	-0,67	-5,00	0,0132	Gas1	Mus musculus growth arrest specific 1 (Gas1), mRNA [NM_008086]
A_55_P1983768	-0,67	-5,07	0,0125	Birc5	Mus musculus baculoviral IAP repeat-containing 5 (Birc5), transcript variant 1, mRNA [NM_009689]
A_55_P2027879	-0,67	-3,84	0,0343	Fbf1	Mus musculus Fas (TNFRSF6) binding factor 1 (Fbf1), mRNA [NM_172571]
A_51_P332141	-0,67	-7,18	0,0035	Cln2	Mus musculus chloride channel 2 (Cln2), mRNA [NM_009900]

A_55_P2047673	-0.67	-5.34	0,0105	Srr	Mus musculus serine racemase (Srr), transcript variant 1, mRNA [NM_013761]
A_55_P2056654	-0.67	-4.93	0,0139	Kif22	Mus musculus kinesin family member 22 (Kif22), mRNA [NM_145588]
A_55_P2046485	-0.67	-4.64	0,0171	Zfp81	Mus musculus zinc finger protein 81 (Zfp81), mRNA [NM_207541]
A_66_P117659	-0.67	-4.26	0,0236	Nfatc3	Mus musculus nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3 (Nfatc3), mRNA [NM_010901]
A_55_P2001073	-0.67	-4.24	0,0238	Arid2	Mus musculus AT rich interactive domain 2 (ARID, RFX-like) (Arid2), mRNA [NM_175251]
A_55_P1990067	-0.67	-6.10	0,0066	Gm9525	PREDICTED: Mus musculus predicted gene 9525 (Gm9525), mRNA [XM_006522818]
A_51_P455897	-0.67	-5.02	0,0130	Fam64a	Mus musculus family with sequence similarity 64, member A (Fam64a), mRNA [NM_144526]
A_55_P2025153	-0.67	-4.29	0,0230	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_55_P1956812	-0.67	-5.57	0,0090	Fam83g	Mus musculus family with sequence similarity 83, member G (Fam83g), mRNA [NM_178618]
A_52_P164695	-0.67	-4.12	0,0264	Nsun6	Mus musculus NOL1/NOP2/Sun domain family member 6 (Nsun6), transcript variant 2, mRNA [NM_028950]
A_55_P1963144	-0.67	-6.53	0,0053	Mttr14	Mus musculus myotubularin related protein 14 (Mttr14), mRNA [NM_026849]
A_55_P1973349	-0.67	-3.65	0,0412	Hist2h4	Mus musculus histone cluster 2, H4 (Hist2h4), mRNA [NM_033596]
A_52_P115579	-0.67	-4.22	0,0242	Fbxo45	Mus musculus F-box protein 45 (Fbxo45), mRNA [NM_173439]
A_55_P1972541	-0.67	-3.64	0,0413	Zfp960	Mus musculus zinc finger protein 960 (Zfp960), transcript variant 1, mRNA [NM_001005358]
A_51_P475613	-0.67	-5.25	0,0109	Fahd2a	Mus musculus fumarylacetoacetate hydrolase domain containing 2A (Fahd2a), mRNA [NM_029629]
A_52_P183038	-0.67	-6.49	0,0054	Impdh1	Mus musculus inosine 5'-phosphate dehydrogenase 1 (Impdh1), mRNA [NM_011829]
A_52_P84353	-0.67	-4.33	0,0222	Homez	Mus musculus homeodomain leucine zipper-encoding gene (Homez), transcript variant 2, mRNA [NM_183174]
A_55_P1984386	-0.67	-4.63	0,0172	Depdc5	Mus musculus DEP domain containing 5 (Depdc5), transcript variant 1, mRNA [NM_001025426]
A_55_P2091147	-0.67	-3.60	0,0429	Hist1h4k	Mus musculus histone cluster 1, H4k (Hist1h4k), mRNA [NM_178211]
A_55_P1997086	-0.67	-4.90	0,0142	Pknox1	Mus musculus Pbx/knotted 1 homeobox (Pknx1), transcript variant 1, mRNA [NM_016670]
A_66_P100696	-0.67	-3.50	0,0473	Slc26a2	Mus musculus solute carrier family 26 (sulfate transporter), member 2 (Slc26a2), mRNA [NM_007885]
A_55_P2121456	-0.68	-5.57	0,0090	Fam43a	Mus musculus family with sequence similarity 43, member A (Fam43a), mRNA [NM_177632]
A_55_P2082914	-0.68	-3.82	0,0350	Acly	Mus musculus ATP citrate lyase (Acly), transcript variant 2, mRNA [NM_134037]
A_55_P1992079	-0.68	-5.91	0,0074	Ptpfr	Mus musculus protein tyrosine phosphatase, receptor type, F (Ptpfr), mRNA [NM_011213]
A_55_P2120021	-0.68	-4.88	0,0145	Gm8587	PREDICTED: Mus musculus predicted pseudogene 8587 (Gm8587), mRNA [XM_990056]
A_55_P2101231	-0.68	-4.61	0,0176	Aldh7a1	Mus musculus aldehyde dehydrogenase family 7, member A1 (Aldh7a1), transcript variant 2, mRNA [NM_001127338]
A_55_P1975181	-0.68	-4.09	0,0272	Acyp1	Mus musculus acylphosphatase 1, erythrocyte (common) type (Acyp1), mRNA [NM_025421]
A_55_P2001198	-0.68	-4.36	0,0216	Stx18	Mus musculus syntaxin 18 (Stx18), transcript variant 1, mRNA [NM_026959]
A_51_P105709	-0.68	-5.81	0,0079	Trip13	Mus musculus thyroid hormone receptor interactor 13 (Trip13), mRNA [NM_027182]
A_66_P128918	-0.68	-4.41	0,0207	Hacl1	Mus musculus 2-hydroxyacyl-CoA lyase 1 (Hacl1), mRNA [NM_019975]
A_55_P2052370	-0.68	-5.25	0,0109	Tia1	Mus musculus cytotoxic granule-associated RNA binding protein 1 (Tia1), transcript variant 1, mRNA [NM_011585]
A_55_P2001290	-0.68	-7.73	0,0025	Ube2e3	Mus musculus ubiquitin-conjugating enzyme E2E 3 (Ube2e3), mRNA [NM_009454]
A_51_P436189	-0.68	-5.72	0,0084	Nudt22	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 22 (Nudt22), mRNA [NM_026675]
A_55_P1990041	-0.68	-3.84	0,0345	Nxt2	Mus musculus nuclear transport factor 2-like export factor 2 (Nxt2), transcript variant 4, mRNA [NM_001290533]
A_66_P116154	-0.68	-6.19	0,0063	Cstf2	Mus musculus cleavage stimulation factor, 3' pre-RNA subunit 2 (Cstf2), transcript variant 1, mRNA [NM_133196]
A_55_P2068723	-0.68	-5.87	0,0076	Ccl27a	Mus musculus chemokine (C-C motif) ligand 27A (Ccl27a), transcript variant 2, mRNA [NM_011336]
A_52_P1077588	-0.68	-5.07	0,0125	Heatr6	Mus musculus HEAT repeat containing 6 (Heatr6), mRNA [NM_145432]
A_52_P604515	-0.68	-4.28	0,0231	Zfp319	Mus musculus zinc finger protein 319 (Zfp319), mRNA [NM_024467]
A_66_P104190	-0.68	-4.63	0,0172	Gsk3b	Mus musculus glycogen synthase kinase 3 beta (Gsk3b), mRNA [NM_019827]
A_55_P2043862	-0.68	-6.60	0,0051	Stmn1	Mus musculus stathmin 1 (Stmn1), mRNA [NM_019641]
A_52_P240470	-0.68	-3.48	0,0485	Ap1ar	Mus musculus adaptor-related protein complex 1 associated regulatory protein (Ap1ar), mRNA [NM_145964]
A_55_P2045741	-0.68	-5.29	0,0106	Fyb	Mus musculus FYN binding protein (Fyb), transcript variant 1, mRNA [NM_011815]
A_51_P335094	-0.68	-5.93	0,0073	Zcchc4	zinc finger, CCHC domain containing 4 [Source:MGI Symbol;Acc:MGI:1926046] [ENSMUST00000113904]
A_51_P510663	-0.68	-4.15	0,0256	Supt3	Mus musculus suppressor of Ty 3 (Supt3), mRNA [NM_178652]
A_52_P162099	-0.68	-4.50	0,0192	Ckap2	Mus musculus cytoskeleton associated protein 2 (Ckap2), mRNA [NM_001004140]
A_55_P2002622	-0.68	-4.78	0,0155	Zfp619	Mus musculus zinc finger protein 619 (Zfp619), mRNA [NM_001004139]
A_55_P1967931	-0.68	-3.80	0,0360	Srfbp1	Mus musculus 12 days embryo embryonic body between diaphragm region and neck cDNA, RIKEN full-length enriched library, clone:9430057L15 product-hypothetical protein, full

					insert sequence. [AK020469]
A_55_P1970665	-0.69	-4.44	0,0201	Kdm3b	Mus musculus KDM3B lysine (K)-specific demethylase 3B (Kdm3b), mRNA [NM_001081256]
A_55_P2126368	-0.69	-5.42	0,0099	Atad5	Mus musculus ATPase family, AAA domain containing 5 (Atad5), mRNA [NM_001029856]
A_51_P300297	-0.69	-5.08	0,0124	Srek1ip1	Mus musculus splicing regulatory glutamine/lysine-rich protein 1 interacting protein 1 (Srek1ip1), mRNA [NM_026075]
A_51_P204442	-0.69	-3.98	0,0300	Phf19	Mus musculus PHD finger protein 19 (Phf19), mRNA [NM_028716]
A_55_P2118891	-0.69	-3.45	0,0496	Zfp882	Mus musculus zinc finger protein 882 (Zfp882), mRNA [NM_001166645]
A_55_P1976127	-0.69	-3.67	0,0402	Ect2	Mus musculus ect2 oncogene (Ect2), transcript variant 1, mRNA [NM_007900]
A_51_P338485	-0.69	-4.45	0,0200	Aldh6a1	Mus musculus aldehyde dehydrogenase family 6, subfamily A1 (Aldh6a1), mRNA [NM_134042]
A_51_P252199	-0.69	-5.48	0,0095	Mmgt1	Mus musculus membrane magnesium transporter 1 (Mmgt1), mRNA [NM_146234]
A_51_P266640	-0.69	-4.67	0,0168	Nob1	Mus musculus NIN1/RPN12 binding protein 1 homolog (S. cerevisiae) (Nob1), mRNA [NM_026277]
A_55_P2229351	-0.69	-3.97	0,0305	Gm10452	Mus musculus adult male diencephalon cDNA, RIKEN full-length enriched library, clone:9330003122 product:hypothetical protein, full insert sequence. [AK136767]
A_51_P435068	-0.69	-4.21	0,0243	Acadsb	Mus musculus acyl-Coenzyme A dehydrogenase, short/branched chain (Acadsb), mRNA [NM_025826]
A_55_P2030638	-0.69	-3.91	0,0323	Dusp23	Mus musculus dual specificity phosphatase 23 (Dusp23), mRNA [NM_026725]
A_51_P513530	-0.69	-4.15	0,0256	Spag5	Mus musculus sperm associated antigen 5 (Spag5), mRNA [NM_017407]
A_55_P1954277	-0.69	-4.88	0,0145	Emid1	Mus musculus EMI domain containing 1 (Emid1), mRNA [NM_080595]
A_51_P465740	-0.69	-4.66	0,0169	Lysmd4	Mus musculus LysM, putative peptidoglycan-binding, domain containing 4 (Lysmd4), transcript variant B, mRNA [NM_175215]
A_55_P2011525	-0.69	-3.70	0,0394	Rnf214	Mus musculus ring finger protein 214 (Rnf214), mRNA [NM_178709]
A_55_P1960616	-0.69	-6.10	0,0066	Dnajc17	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 17 (Dnajc17), mRNA [NM_139139]
A_52_P391983	-0.69	-4.58	0,0181	Nt5c2	Mus musculus 5'-nucleotidase, cytosolic II (Nt5c2), transcript variant 3, mRNA [NM_029810]
A_51_P102355	-0.69	-3.70	0,0390	Zbtb41	Mus musculus zinc finger and BTB domain containing 41 homolog (Zbtb41), mRNA [NM_172643]
A_66_P125257	-0.69	-3.91	0,0322	Cep120	Mus musculus centrosomal protein 120 (Cep120), mRNA [NM_178686]
A_51_P223036	-0.69	-3.79	0,0364	Fbxo30	Mus musculus F-box protein 30 (Fbxo30), transcript variant 1, mRNA [NM_027968]
A_55_P1983999	-0.69	-4.85	0,0148	Desi1	Mus musculus desumoylating isopeptidase 1 (Desi1), mRNA [NM_134095]
A_52_P449259	-0.69	-4.78	0,0155	Atp11b	Mus musculus ATPase, class VI, type 11B (Atp11b), mRNA [NM_029570]
A_55_P2082135	-0.69	-4.94	0,0139	Gabbr1	Mus musculus gamma-aminobutyric acid (GABA) B receptor, 1 (Gabbr1), mRNA [NM_019439]
A_51_P263100	-0.69	-4.87	0,0145	Actr1b	Mus musculus ARP1 actin-related protein 1B, contractin beta (Actr1b), mRNA [NM_146107]
A_51_P344376	-0.69	-5.37	0,0102	Gpr162	Mus musculus G protein-coupled receptor 162 (Gpr162), mRNA [NM_013533]
A_51_P482711	-0.69	-4.51	0,0191	Dhcr24	Mus musculus 24-dehydrocholesterol reductase (Dhcr24), mRNA [NM_053272]
A_52_P759266	-0.70	-3.72	0,0384	Gm6787	Mus musculus predicted gene 6787 (Gm6787), non-coding RNA [NR_003632]
A_52_P91891	-0.70	-5.25	0,0109	Ppp4r1l-ps	Mus musculus protein phosphatase 4, regulatory subunit 1-like, pseudogene (Ppp4r1l-ps), non-coding RNA [NR_027957]
A_52_P351669	-0.70	-6.77	0,0046	Gcc2	Mus musculus GRIP and coiled-coil domain containing 2 (Gcc2), mRNA [NM_027375]
A_51_P410744	-0.70	-3.93	0,0316	Dgke	Mus musculus diacylglycerol kinase, epsilon (Dgke), mRNA [NM_019505]
A_55_P2081615	-0.70	-4.31	0,0226	Timeless	Mus musculus timeless circadian clock 1 (Timeless), transcript variant 4, mRNA [NM_001164081]
A_55_P2137586	-0.70	-4.98	0,0133	Nphp4	Mus musculus nephronophthisis 4 (juvenile) homolog (human) (Nphp4), mRNA [NM_153424]
A_55_P2068663	-0.70	-5.52	0,0093	Stmn1	Mus musculus stathmin 1 (Stmn1), mRNA [NM_019641]
A_55_P2111649	-0.70	-4.53	0,0189	Mbd1	Mus musculus methyl-CpG binding domain protein 1 (Mbd1), mRNA [NM_013594]
A_55_P2090179	-0.70	-4.02	0,0290	Cbx5	Mus musculus chromobox 5 (Cbx5), transcript variant 3, mRNA [NM_001110216]
A_65_P17827	-0.70	-4.52	0,0190	Cenpl	Mus musculus centromere protein L (Cenpl), transcript variant 2, mRNA [NM_027429]
A_66_P119418	-0.70	-6.51	0,0053	Rb1cc1	Mus musculus RB1-inducible coiled-coil 1 (Rb1cc1), mRNA [NM_009826]
A_51_P473272	-0.70	-4.94	0,0138	Tspan6	Mus musculus tetraspanin 6 (Tspan6), mRNA [NM_019656]
A_52_P525183	-0.70	-3.58	0,0437	Acot2	Mus musculus acyl-CoA thioesterase 2 (Acot2), mRNA [NM_134188]
A_55_P2022297	-0.70	-5.88	0,0075	Pthr2	Mus musculus peptidyl-tRNA hydrolase 2 (Pthr2), transcript variant 1, mRNA [NM_175004]
A_55_P1977478	-0.70	-6.22	0,0062	Zfp629	Mus musculus zinc finger protein 629 (Zfp629), mRNA [NM_177226]
A_51_P202623	-0.70	-4.36	0,0215	Mterfd3	Mus musculus MTERF domain containing 3 (Mterfd3), mRNA [NM_028832]
A_66_P119164	-0.70	-4.42	0,0204	Zfp354c	Mus musculus zinc finger protein 354C (Zfp354c), mRNA [NM_013922]
A_55_P2121466	-0.70	-3.48	0,0483	Ncor1	Mus musculus nuclear receptor co-repressor 1 (Ncor1), transcript variant 1, mRNA [NM_001252313]
A_52_P590235	-0.70	-6.46	0,0055	Vars2	Mus musculus valyl-tRNA synthetase 2, mitochondrial (putative) (Vars2), mRNA [NM_175137]

A_55_P1971378	-0,70	-4,83	0,0149	Nlrp12	Mus musculus NLR family, pyrin domain containing 12 (Nlrp12), mRNA [NM_001033431]
A_52_P374292	-0,70	-4,01	0,0293	Tefm	Mus musculus transcription elongation factor, mitochondrial (Tefm), mRNA [NM_183275]
A_55_P1982951	-0,70	-4,09	0,0271	Dcaf10	Mus musculus DDB1 and CUL4 associated factor 10 (Dcaf10), mRNA [NM_153167]
A_55_P2115127	-0,70	-3,61	0,0428	Mphosph10	Mus musculus M-phase phosphoprotein 10 (U3 small nucleolar ribonucleoprotein) (Mphosph10), mRNA [NM_026483]
A_51_P114353	-0,70	-3,87	0,0334	Ctu1	Mus musculus cytosolic thioridylase subunit 1 homolog (S. pombe) (Ctu1), mRNA [NM_145582]
A_55_P1967291	-0,70	-5,47	0,0096	Ncaph	Mus musculus non-SMC condensin I complex, subunit H (Ncaph), mRNA [NM_144818]
A_52_P94454	-0,70	-3,84	0,0345	Xndc1	Mus musculus Xrcc1 N-terminal domain containing 1 (Xndc1), transcript variant 1, mRNA [NM_001286689]
A_55_P2082986	-0,70	-7,60	0,0027	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_52_P445622	-0,71	-4,73	0,0160	2610002M06Rik	Mus musculus RIKEN cDNA 2610002M06 gene (2610002M06Rik), mRNA [NM_025921]
A_66_P138769	-0,71	-4,97	0,0135	Usp19	Mus musculus ubiquitin specific peptidase 19 (Usp19), transcript variant 2, mRNA [NM_001168371]
A_55_P2034032	-0,71	-3,51	0,0472	Il12rb1	Mus musculus interleukin 12 receptor, beta 1 (Il12rb1), mRNA [NM_008353]
A_51_P217706	-0,71	-4,39	0,0208	Ribc1	Mus musculus RIB43A domain with coiled-coils 1 (Ribc1), mRNA [NM_025660]
A_52_P641367	-0,71	-5,08	0,0124	Desi1	Mus musculus desumoylating isopeptidase 1 (Desi1), mRNA [NM_134095]
A_55_P2415197	-0,71	-5,05	0,0127	2810013P06Rik	Mus musculus RIKEN cDNA 2810013P06 gene (2810013P06Rik), long non-coding RNA [NR_045268]
A_55_P2053258	-0,71	-7,01	0,0039	Poc1a	Mus musculus POC1 centriolar protein homolog A (Chlamydomonas) (Poc1a), mRNA [NM_027354]
A_51_P130824	-0,71	-4,24	0,0239	Cog8	Mus musculus component of oligomeric golgi complex 8 (Cog8), mRNA [NM_139229]
A_55_P2040425	-0,71	-4,74	0,0159	Guf1	Mus musculus GUF1 GTPase homolog (S. cerevisiae) (Guf1), mRNA [NM_172711]
A_55_P2004801	-0,71	-4,58	0,0180	Tacc3	Mus musculus transforming, acidic coiled-coil containing protein 3 (Tacc3), mRNA [NM_001040435]
A_51_P101660	-0,71	-5,57	0,0090	1200014J11Rik	Mus musculus RIKEN cDNA 1200014J11 gene (1200014J11Rik), mRNA [NM_025818]
A_51_P184796	-0,71	-5,41	0,0100	Zfp101	Mus musculus zinc finger protein 101 (Zfp101), mRNA [NM_009542]
A_66_P110970	-0,71	-4,69	0,0165	Tpd52l2	Mus musculus tumor protein D52-like 2 (Tpd52l2), transcript variant 1, mRNA [NM_001291197]
A_51_P116421	-0,71	-5,58	0,0090	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 1, mRNA [NM_013790]
A_51_P120717	-0,71	-6,58	0,0052	Lmnbl1	Mus musculus lamin B1 (Lmnbl1), mRNA [NM_010721]
A_51_P231630	-0,71	-4,45	0,0200	Zfp239	Mus musculus zinc finger protein 239 (Zfp239), transcript variant 1, mRNA [NM_001001792]
A_55_P2128646	-0,71	-4,71	0,0162	Gmnn	Mus musculus geminin (Gmnn), mRNA [NM_020567]
A_55_P2140423	-0,71	-4,39	0,0209	Arfp2	Mus musculus ADP-ribosylation factor interacting protein 2 (Arfp2), mRNA [NM_029802]
A_52_P472319	-0,71	-3,86	0,0339	Plxnd1	Mus musculus plexin D1 (Plxnd1), mRNA [NM_026376]
A_55_P2175206	-0,71	-4,53	0,0189	Rbbp6	Mus musculus retinoblastoma binding protein 6 (Rbbp6), transcript variant 2, mRNA [NM_175023]
A_52_P301223	-0,71	-4,67	0,0167	Brwd1	Mus musculus bromodomain and WD repeat domain containing 1 (Brwd1), transcript variant 3, mRNA [NM_176928]
A_55_P1972018	-0,71	-3,50	0,0474	Hist1h4c	Mus musculus histone cluster 1, H4c (Hist1h4c), mRNA [NM_178208]
A_52_P382939	-0,71	-4,79	0,0155	Champ1	Mus musculus chromosome alignment maintaining phosphoprotein 1 (Champ1), mRNA [NM_181854]
A_52_P30877	-0,71	-6,28	0,0061	Gm5176	Mus musculus predicted gene 5176 (Gm5176), non-coding RNA [NR_033603]
A_51_P240453	-0,71	-4,94	0,0139	Nusap1	Mus musculus nucleolar and spindle associated protein 1 (Nusap1), transcript variant 1, mRNA [NM_133851]
A_55_P1963300	-0,71	-3,78	0,0367	Vsig10	Mus musculus V-set and immunoglobulin domain containing 10 (Vsig10), mRNA [NM_001033311]
A_51_P386911	-0,71	-4,85	0,0147	Taco1	Mus musculus translational activator of mitochondrially encoded cytochrome c oxidase I (Taco1), mRNA [NM_027346]
A_55_P2170109	-0,72	-4,77	0,0156	Bivm	Mus musculus basic, immunoglobulin-like variable motif containing (Bivm), mRNA [NM_144558]
A_55_P2000728	-0,72	-5,55	0,0092	Myef2	Mus musculus myelin basic protein expression factor 2, repressor (Myef2), transcript variant 1, mRNA [NM_001162417]
A_51_P470311	-0,72	-4,65	0,0170	Cby1	Mus musculus chibby homolog 1 (Drosophila) (Cby1), mRNA [NM_028634]
A_51_P123405	-0,72	-4,08	0,0274	Bub1	Mus musculus budding uninhibited by benzimidazoles 1 homolog (S. cerevisiae) (Bub1), transcript variant 2, mRNA [NM_009772]
A_55_P2077263	-0,72	-3,65	0,0412	Cenpk	Mus musculus centromere protein K (Cenpk), transcript variant 1, mRNA [NM_021790]
A_51_P511800	-0,72	-5,94	0,0073	Oma1	Mus musculus OMA1 homolog, zinc metallopeptidase (S. cerevisiae) (Oma1), mRNA [NM_025909]
A_55_P2086770	-0,72	-3,54	0,0457	Uevld	Mus musculus UEV and lactate/malate dehydrogenase domains (Uevld), mRNA [NM_001040695]
A_51_P121466	-0,72	-6,83	0,0044	Tab1	Mus musculus TGF-beta activated kinase 1/MAP3K7 binding protein 1 (Tab1), mRNA [NM_025609]
A_52_P232663	-0,72	-3,99	0,0299	Rhot1	Mus musculus ras homolog gene family, member T1 (Rhot1), transcript variant 1, mRNA [NM_021536]
A_66_P134481	-0,72	-5,21	0,0112	Skp2	Mus musculus S-phase kinase-associated protein 2 (p45) (Skp2), transcript variant 1, mRNA [NM_013787]
A_51_P331207	-0,72	-3,90	0,0325	Tmem218	Mus musculus transmembrane protein 218 (Tmem218), mRNA [NM_025464]
A_51_P278489	-0,72	-5,54	0,0092	Itfg2	Mus musculus integrin alpha FG-GAP repeat containing 2 (Itfg2), mRNA [NM_133927]

A_51_P388298	-0,72	-4,85	0,0148	Mmachc	Mus musculus methylmalonic aciduria cblC type, with homocystinuria (Mmachc), mRNA [NM_025962]
A_55_P2099064	-0,72	-4,31	0,0225	Whsc1	Mus musculus Wolf-Hirschhorn syndrome candidate 1 (human) (Whsc1), transcript variant 1, mRNA [NM_001081102]
A_51_P316801	-0,72	-3,92	0,0320	Wdr60	Mus musculus WD repeat domain 60 (Wdr60), mRNA [NM_146039]
A_52_P589664	-0,72	-4,44	0,0200	Zfp846	Mus musculus zinc finger protein 846 (Zfp846), mRNA [NM_172919]
A_55_P2241204	-0,72	-6,64	0,0049	1500015A07 Rik	Mus musculus RIKEN cDNA 1500015A07 gene (1500015A07Rik), long non-coding RNA [NR_029432]
A_51_P332580	-0,72	-4,06	0,0280	Polr3f	Mus musculus polymerase (RNA) III (DNA directed) polypeptide F (Polr3f), mRNA [NM_029763]
A_52_P59318	-0,72	-4,42	0,0204	Rdh10	Mus musculus retinol dehydrogenase 10 (all-trans) (Rdh10), mRNA [NM_133832]
A_51_P500718	-0,72	-5,15	0,0118	Dck	Mus musculus deoxycytidine kinase (Dck), mRNA [NM_007832]
A_55_P2105200	-0,72	-4,33	0,0222	Fam175a	Mus musculus family with sequence similarity 175, member A (Fam175a), mRNA [NM_172405]
A_55_P1957830	-0,73	-3,49	0,0480	Bbip1	Mus musculus BBSome interacting protein 1 (Bbip1), transcript variant 1, mRNA [NM_001195338]
A_55_P2088375	-0,73	-3,76	0,0371	Tnnt3	Mus musculus troponin T3, skeletal, fast (Tnnt3), transcript variant 1, mRNA [NM_001163664]
A_55_P2054256	-0,73	-4,76	0,0157	Mzt2	Mus musculus mitotic spindle organizing protein 2 (Mzt2), mRNA [NM_029354]
A_52_P398085	-0,73	-3,71	0,0389	Map3k15	Mus musculus mitogen-activated protein kinase kinase kinase 15 (Map3k15), mRNA [NM_001163085]
A_51_P512306	-0,73	-3,53	0,0461	Kirrel2	Mus musculus kin of IRRE like 2 (Drosophila) (Kirrel2), mRNA [NM_172898]
A_51_P372895	-0,73	-7,10	0,0037	Zfp433	Mus musculus RIKEN cDNA 1700123A16 gene (Zfp433), mRNA [NM_001243067]
A_55_P2129286	-0,73	-6,29	0,0061	Zc3hc1	Mus musculus zinc finger, C3HC type 1 (Zc3hc1), mRNA [NM_172735]
A_52_P82660	-0,73	-4,73	0,0160	Mcm9	minichromosome maintenance complex component 9 [Source:MGI Symbol;Acc:MGI:1918817] [ENSIMUST0000075540]
A_51_P267508	-0,73	-4,36	0,0215	2010012005 Rik	Mus musculus RIKEN cDNA 2010012005 gene (2010012005Rik), mRNA [NM_025563]
A_52_P401640	-0,73	-5,17	0,0116	Bpgm	Mus musculus 2,3-bisphosphoglycerate mutase (Bpgm), mRNA [NM_007563]
A_55_P2002689	-0,73	-6,64	0,0049	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_52_P75348	-0,73	-4,04	0,0286	Spdl1	Mus musculus spindle apparatus coiled-coil protein 1 (Spdl1), mRNA [NM_027411]
A_51_P319070	-0,73	-3,98	0,0302	Retsat	Mus musculus retinol saturase (all trans retinol 13,14 reductase) (Retsat), mRNA [NM_026159]
A_55_P2087162	-0,73	-5,68	0,0085	Specc1l	Mus musculus sperm antigen with calponin homology and coiled-coil domains 1-like (Specc1l), transcript variant 1, mRNA [NM_001145826]
A_52_P370935	-0,73	-5,30	0,0106	Glcc1	Mus musculus glucocorticoid induced transcript 1 (Glcc1), transcript variant 1, mRNA [NM_133236]
A_51_P158018	-0,73	-4,04	0,0286	Bend5	Mus musculus BEN domain containing 5 (Bend5), transcript variant 1, mRNA [NM_026279]
A_55_P2057102	-0,73	-5,80	0,0079	Sft2d3	Mus musculus SFT2 domain containing 3 (Sft2d3), mRNA [NM_026006]
A_55_P1980321	-0,73	-6,53	0,0053	Pcbp3	Mus musculus poly(rC) binding protein 3 (Pcbp3), mRNA [NM_021568]
A_52_P291071	-0,73	-4,02	0,0289	Fbxw18	Mus musculus F-box and WD-40 domain protein 18 (Fbxw18), mRNA [NM_001033794]
A_55_P2144641	-0,73	-3,69	0,0395	Sdk1	Mus musculus sidekick homolog 1 (chicken) (Sdk1), mRNA [NM_177879]
A_55_P2009091	-0,73	-5,54	0,0092	Mad1l1	Mus musculus MAD1 mitotic arrest deficient 1-like 1 (Mad1l1), mRNA [NM_010752]
A_55_P2106150	-0,73	-3,94	0,0314	Cenpk	Mus musculus centromere protein K (Cenpk), transcript variant 1, mRNA [NM_021790]
A_55_P2065154	-0,73	-4,24	0,0239	Kdm2b	Mus musculus lysine (K)-specific demethylase 2B (Kdm2b), transcript variant 1, mRNA [NM_001003953]
A_52_P606679	-0,73	-7,86	0,0023	Tceb3	Mus musculus transcription elongation factor B (SII), polypeptide 3 (Tceb3), mRNA [NM_013736]
A_55_P2176917	-0,74	-6,88	0,0043	Gm6115	PREDICTED: Mus musculus predicted gene 6115 (Gm6115), mRNA [XM_006543113]
A_55_P2120737	-0,74	-3,57	0,0441	Gm10537	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930598K17 product:hypothetical protein, full insert sequence. [AK133141]
A_51_P141071	-0,74	-5,25	0,0109	Cand2	Mus musculus cullin-associated and neddylation-dissociated 2 (putative) (Cand2), mRNA [NM_025958]
A_52_P663904	-0,74	-6,26	0,0061	Lhfp1l	Mus musculus lipoma HMGIC fusion partner-like 1 (Lhfp1l), mRNA [NM_178358]
A_55_P1952414	-0,74	-5,96	0,0072	Odf2	Mus musculus outer dense fiber of sperm tails 2 (Odf2), transcript variant 2, mRNA [NM_001113214]
A_51_P451151	-0,74	-4,66	0,0169	Ube2c	Mus musculus ubiquitin-conjugating enzyme E2C (Ube2c), mRNA [NM_026785]
A_51_P483261	-0,74	-6,99	0,0040	Pomt1	Mus musculus protein-O-mannosyltransferase 1 (Pomt1), mRNA [NM_145145]
A_55_P1963454	-0,74	-3,60	0,0433	Cenpq	Mus musculus centromere protein Q (Cenpq), mRNA [NM_031863]
A_51_P123134	-0,74	-4,83	0,0149	Ercc6l	Mus musculus excision repair cross-complementing rodent repair deficiency complementation group 6 like (Ercc6l), mRNA [NM_146235]
A_55_P2142535	-0,74	-4,81	0,0151	1700037C18 Rik	Mus musculus RIKEN cDNA 1700037C18 gene (1700037C18Rik), mRNA [NM_028484]
A_51_P493105	-0,74	-3,69	0,0398	Mettl15	Mus musculus methyltransferase like 15 (Mettl15), mRNA [NM_029790]
A_51_P303725	-0,74	-6,30	0,0060	Tmem38a	Mus musculus transmembrane protein 38A (Tmem38a), mRNA [NM_144534]
A_52_P137691	-0,75	-6,17	0,0064	Trappc5	Mus musculus trafficking protein particle complex 5 (Trappc5), mRNA [NM_025701]



A_51_P447785	-0,75	-4,70	0,0164	Cyp2c55	Mus musculus cytochrome P450, family 2, subfamily c, polypeptide 55 (Cyp2c55), mRNA [NM_028089]
A_51_P463607	-0,75	-4,86	0,0146	Xpnpep3	Mus musculus X-prolyl aminopeptidase (aminopeptidase P) 3, putative (Xpnpep3), mRNA [NM_177310]
A_51_P475291	-0,75	-7,35	0,0032	Moap1	Mus musculus modulator of apoptosis 1 (Moap1), transcript variant 1, mRNA [NM_022323]
A_55_P2048096	-0,75	-4,45	0,0199	Mzf1	Mus musculus myeloid zinc finger 1 (Mzf1), transcript variant 3, mRNA [NM_001290453]
A_55_P2004807	-0,75	-3,68	0,0401	Hexim2	Mus musculus hexamethylene bis-acetamide inducible 2 (Hexim2), transcript variant 1, mRNA [NM_027658]
A_51_P215438	-0,75	-6,14	0,0065	Prodh	Mus musculus proline dehydrogenase (Prodh), mRNA [NM_011172]
A_55_P2061779	-0,75	-3,70	0,0390	Zfp456	Mus musculus zinc finger protein 456 (Zfp456), mRNA [NM_001001186]
A_51_P479786	-0,75	-3,78	0,0365	Smtn	Mus musculus smoothelin (Smtn), transcript variant 2, mRNA [NM_013870]
A_55_P2174816	-0,75	-4,45	0,0199	Zfp266	Mus musculus zinc finger protein 266 (Zfp266), transcript variant 1, mRNA [NM_001082485]
A_55_P2030736	-0,75	-4,93	0,0139	Scmh1	Mus musculus sex comb on midleg homolog 1 (Scmh1), transcript variant 1, mRNA [NM_013883]
A_55_P2048284	-0,75	-5,70	0,0084	Aasdhppt	Mus musculus aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase (Aasdhppt), mRNA [NM_026276]
A_52_P616591	-0,75	-4,63	0,0172	Eri3	Mus musculus exoribonuclease 3 (Eri3), transcript variant 1, mRNA [NM_080469]
A_51_P440852	-0,75	-4,36	0,0216	Mtrf1	Mus musculus mitochondrial translational release factor 1 (Mtrf1), mRNA [NM_145960]
A_51_P224099	-0,75	-6,84	0,0044	Cntrob	Mus musculus centrobins, centrosomal BRCA2 interacting protein (Cntrob), mRNA [NM_172560]
A_51_P126302	-0,75	-5,32	0,0106	Rbmx2	Mus musculus RNA binding motif protein, X-linked 2 (Rbmx2), mRNA [NM_173376]
A_65_P17866	-0,75	-3,49	0,0478	Vma21	Mus musculus VMA21 vacuolar H <sup>+</sup> -ATPase homolog (S. cerevisiae) (Vma21), transcript variant 3, mRNA [NM_001290781]
A_52_P299846	-0,75	-4,79	0,0154	Sh3rf1	Mus musculus SH3 domain containing ring finger 1 (Sh3rf1), mRNA [NM_021506]
A_55_P2091145	-0,75	-4,18	0,0251	Hist1h4k	Mus musculus histone cluster 1, H4k (Hist1h4k), mRNA [NM_178211]
A_55_P1992421	-0,75	-5,18	0,0115	Hmgb3	Mus musculus high mobility group box 3 (Hmgb3), mRNA [NM_008253]
A_51_P369628	-0,75	-6,26	0,0061	Ptov1	Mus musculus prostate tumor over expressed gene 1 (Ptov1), mRNA [NM_133949]
A_52_P422755	-0,76	-4,82	0,0151	Lsm6	Mus musculus LSM6 homolog, U6 small nuclear RNA associated (S. cerevisiae) (Lsm6), transcript variant 2, mRNA [NM_030145]
A_52_P110257	-0,76	-9,15	0,0010	Wdr83	Mus musculus WD repeat domain containing 83 (Wdr83), mRNA [NM_026399]
A_51_P394394	-0,76	-5,26	0,0109	Tspan2	Mus musculus tetraspanin 2 (Tspan2), transcript variant 1, mRNA [NM_027533]
A_51_P364421	-0,76	-6,13	0,0065	Vamp7	Mus musculus vesicle-associated membrane protein 7 (Vamp7), mRNA [NM_011515]
A_55_P2163561	-0,76	-3,54	0,0457	Syt11	Mus musculus synaptotagmin-like 1 (Syt11), mRNA [NM_031393]
A_55_P2072391	-0,76	-3,48	0,0485	Acp1	Mus musculus acid phosphatase 1, soluble (Acp1), transcript variant 1, mRNA [NM_001110239]
A_55_P2040455	-0,76	-4,76	0,0157	Ano10	Mus musculus anoctamin 10 (Ano10), transcript variant 1, mRNA [NM_133979]
A_55_P2023441	-0,76	-5,50	0,0094	Elp4	Mus musculus elongation protein 4 homolog (S. cerevisiae) (Elp4), mRNA [NM_023876]
A_55_P1958137	-0,76	-3,96	0,0307	Immp2l	IMP2 inner mitochondrial membrane peptidase-like (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:2135611] [ENSMUST00000140790]
A_55_P2000853	-0,76	-8,46	0,0016	Mvb12b	Mus musculus multivesicular body subunit 12B (Mvb12b), mRNA [NM_175184]
A_52_P502226	-0,76	-3,54	0,0457	2810429104 Rik	Mus musculus RIKEN cDNA 2810429104 gene (2810429104Rik), long non-coding RNA [NR_015522]
A_52_P110068	-0,76	-4,67	0,0167	Rqcd1	Mus musculus rcd1 (required for cell differentiation) homolog 1 (S. pombe) (Rqcd1), mRNA [NM_021383]
A_55_P1988754	-0,76	-3,59	0,0435	Hist4h4	Mus musculus histone cluster 4, H4 (Hist4h4), mRNA [NM_175652]
A_55_P1994020	-0,76	-8,38	0,0017	Casc4	Mus musculus cancer susceptibility candidate 4 (Casc4), transcript variant 3, mRNA [NM_001205369]
A_52_P458870	-0,76	-3,74	0,0378	Slc25a16	Mus musculus solute carrier family 25 (mitochondrial carrier, Graves disease autoantigen), member 16 (Slc25a16), mRNA [NM_175194]
A_51_P276479	-0,76	-3,77	0,0370	4930486L24 Rik	Mus musculus RIKEN cDNA 4930486L24 gene (4930486L24Rik), mRNA [NM_178098]
A_65_P15675	-0,76	-7,76	0,0024	Ipo9	Mus musculus importin 9 (Ipo9), mRNA [NM_153774]
A_52_P281711	-0,76	-4,35	0,0217	Wdr5b	Mus musculus WD repeat domain 5B (Wdr5b), mRNA [NM_027113]
A_66_P121656	-0,76	-6,90	0,0042	Pcgf1	Mus musculus polycomb group ring finger 1 (Pcgf1), mRNA [NM_197992]
A_55_P2241553	-0,76	-5,44	0,0098	9330133014 Rik	Mus musculus RIKEN cDNA 9330133014 gene (9330133014Rik), long non-coding RNA [NR_045696]
A_55_P2158701	-0,76	-4,05	0,0283	Hist1h4d	Mus musculus histone cluster 1, H4d (Hist1h4d), mRNA [NM_175654]
A_51_P210340	-0,76	-4,31	0,0226	2610306M01 Rik	Mus musculus RIKEN cDNA 2610306M01 gene (2610306M01Rik), long non-coding RNA [NR_028298]
A_52_P113672	-0,76	-4,13	0,0262	Chml	Mus musculus choroideremia-like (Chml), mRNA [NM_021350]
A_52_P243412	-0,76	-4,06	0,0279	Ulk2	Mus musculus unc-51 like kinase 2 (Ulk2), mRNA [NM_013881]
A_52_P526852	-0,76	-5,03	0,0129	Eri1	Mus musculus exoribonuclease 1 (Eri1), mRNA [NM_026067]

A_55_P2046897	-0,76	-5,18	0,0115	9430060103 Rik	Mus musculus RIKEN cDNA 9430060103 gene (9430060103Rik), long non-coding RNA [NR_015525]
A_51_P433430	-0,76	-4,77	0,0156	Phc1	Mus musculus polyhomeotic-like 1 (Drosophila) (Phc1), transcript variant 1, mRNA [NM_007905]
A_55_P2054455	-0,77	-3,56	0,0449	Adprm	Mus musculus ADP-ribose/CDP-alcohol diphosphatase, manganese dependent (Adprm), mRNA [NM_025510]
A_51_P377508	-0,77	-4,77	0,0156	Sreb2	Mus musculus sterol regulatory element binding factor 2 (Sreb2), mRNA [NM_033218]
A_55_P2084696	-0,77	-5,73	0,0083	Hist1h2aa	Mus musculus histone cluster 1, H2aa (Hist1h2aa), mRNA [NM_175658]
A_51_P432659	-0,77	-6,52	0,0053	Pex7	Mus musculus peroxisomal biogenesis factor 7 (Pex7), transcript variant 1, mRNA [NM_008822]
A_52_P365005	-0,77	-6,08	0,0067	Zbtb22	Mus musculus zinc finger and BTB domain containing 22 (Zbtb22), mRNA [NM_020625]
A_55_P2075248	-0,77	-4,33	0,0222	Gm10501	Mus musculus 13 days embryo forelimb cDNA, RIKEN full-length enriched library, clone:5930424B19 product:hypothetical protein, full insert sequence. [AK134269]
A_55_P2185372	-0,77	-4,45	0,0199	Sirt4	Mus musculus sirtuin 4 (Sirt4), transcript variant 1, mRNA [NM_001167691]
A_51_P430423	-0,77	-6,25	0,0061	Ada	Mus musculus adenosine deaminase (Ada), transcript variant 2, mRNA [NM_007398]
A_52_P653937	-0,77	-5,31	0,0106	Rpl21	Mus musculus ribosomal protein L21 (Rpl21), mRNA [NM_019647]
A_66_P130035	-0,77	-3,54	0,0455	Klk1b24	Mus musculus kallikrein 1-related peptidase b24 (Klk1b24), mRNA [NM_010643]
A_52_P139650	-0,77	-4,61	0,0175	Ska1	Mus musculus spindle and kinetochore associated complex subunit 1 (Ska1), transcript variant 1, mRNA [NM_025581]
A_55_P2180735	-0,77	-4,35	0,0217	Zfp740	Mus musculus zinc finger protein 740 (Zfp740), transcript variant 3, mRNA [NM_001289694]
A_52_P387009	-0,77	-5,73	0,0083	Egln3	Mus musculus EGL nine homolog 3 (C. elegans) (Egln3), mRNA [NM_028133]
A_51_P214343	-0,77	-6,13	0,0065	Sep1s	Mus musculus selenophosphate synthetase 1 (Sep1s), mRNA [NM_175400]
A_52_P134228	-0,77	-5,33	0,0105	Lsm11	Mus musculus U7 snRNP-specific Sm-like protein LSM11 (Lsm11), mRNA [NM_028185]
A_52_P220163	-0,77	-6,13	0,0065	5830454E08 Rik	Mus musculus RIKEN cDNA 5830454E08 gene (5830454E08Rik), long non-coding RNA [NR_073359]
A_66_P114381	-0,77	-3,48	0,0486	Ypel2	Mus musculus yippee-like 2 (Drosophila) (Ypel2), mRNA [NM_001005341]
A_55_P2062598	-0,77	-4,79	0,0154	E2f7	Mus musculus E2F transcription factor 7 (E2f7), mRNA [NM_178609]
A_52_P315369	-0,77	-4,23	0,0240	Cyb5r1	Mus musculus cytochrome b5 reductase 1 (Cyb5r1), mRNA [NM_028057]
A_52_P229316	-0,77	-5,97	0,0072	Galnt4	Mus musculus UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 4 (Galnt4), mRNA [NM_015737]
A_55_P1984751	-0,77	-6,51	0,0053	Ppp1r14b	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14B, mRNA (cDNA clone MGC:99938 IMAGE:6820968), complete cds. [BC082545]
A_52_P407692	-0,78	-7,17	0,0035	H2afj	Mus musculus H2A histone family, member J (H2afj), mRNA [NM_177688]
A_51_P317115	-0,78	-4,00	0,0297	Wdr18	Mus musculus WD repeat domain 18 (Wdr18), mRNA [NM_175450]
A_52_P217875	-0,78	-4,18	0,0251	H3f3b	Mus musculus H3 histone, family 3B (H3f3b), mRNA [NM_008211]
A_52_P56397	-0,78	-5,04	0,0128	Clhc1	Mus musculus clathrin heavy chain linker domain containing 1 (Clhc1), mRNA [NM_001081099]
A_55_P2122718	-0,78	-7,01	0,0039	Gpr19	Mus musculus G protein-coupled receptor 19 (Gpr19), transcript variant 2, mRNA [NM_001167700]
A_55_P2000833	-0,78	-4,22	0,0241	E2f8	Mus musculus E2F transcription factor 8 (E2f8), mRNA [NM_001013368]
A_55_P2137828	-0,78	-3,56	0,0448	Gprc5b	Mus musculus G protein-coupled receptor, family C, group 5, member B (Gprc5b), transcript variant 2, mRNA [NM_022420]
A_55_P2150108	-0,78	-3,48	0,0486	Pgm21	Mus musculus phosphoglucomutase 2-like 1 (Pgm21), mRNA [NM_027629]
A_52_P588881	-0,78	-5,72	0,0084	Iqgap3	Mus musculus IQ motif containing GTPase activating protein 3 (Iqgap3), mRNA [NM_001033484]
A_55_P2049717	-0,78	-3,78	0,0366	Agpr	Mus musculus agouti related protein (Agpr), transcript variant 2, mRNA [NM_001271806]
A_52_P476075	-0,78	-4,93	0,0139	Clspn	Mus musculus claspin (Clspn), mRNA [NM_175554]
A_55_P2090817	-0,78	-7,07	0,0038	Macro2	Mus musculus MACRO domain containing 2 (Macro2), transcript variant 2, mRNA [NM_028387]
A_55_P1963737	-0,78	-5,33	0,0105	Aktip	Mus musculus thymoma viral proto-oncogene 1 interacting protein (Aktip), mRNA [NM_010241]
A_52_P183071	-0,78	-5,03	0,0129	Rnf146	Mus musculus ring finger protein 146 (Rnf146), transcript variant 1, mRNA [NM_001110197]
A_66_P130602	-0,78	-4,94	0,0139	Pdzd8	Mus musculus PDZ domain containing 8 (Pdzd8), mRNA [NM_001033222]
A_51_P111488	-0,78	-5,39	0,0101	Gfod2	Mus musculus glucose-fructose oxidoreductase domain containing 2 (Gfod2), mRNA [NM_027469]
A_51_P384113	-0,78	-3,88	0,0333	Acad12	Mus musculus acyl-Coenzyme A dehydrogenase family, member 12 (Acad12), mRNA [NM_178799]
A_51_P369200	-0,78	-5,73	0,0083	Tpx2	Mus musculus TPX2, microtubule-associated protein homolog (Xenopus laevis) (Tpx2), transcript variant 2, mRNA [NM_028109]
A_66_P114585	-0,78	-4,29	0,0229	Mta3	PREDICTED: Mus musculus metastasis associated 3 (Mta3), transcript variant X6, mRNA [XM_006523511]
A_52_P483301	-0,78	-6,82	0,0044	Mios	Mus musculus missing oocyte, meiosis regulator, homolog (Drosophila) (Mios), mRNA [NM_145374]
A_52_P313856	-0,78	-4,82	0,0150	Slc25a26	Mus musculus solute carrier family 25 (mitochondrial carrier, phosphate carrier), member 26 (Slc25a26), mRNA [NM_026255]
A_51_P399071	-0,78	-4,27	0,0233	Anp32a	Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member A (Anp32a), mRNA [NM_009672]
A_55_P2038458	-0,78	-4,97	0,0135	Lancl2	Mus musculus LanC (bacterial lantibiotic synthetase component C)-like 2 (Lancl2), mRNA [NM_133737]



A_51_P509452	-0,78	-3,94	0,0314	Tmlhe	Mus musculus trimethyllysine hydroxylase, epsilon (Tmlhe), mRNA [NM_138758]
A_55_P2364738	-0,78	-3,71	0,0388	Plxdc1	Mus musculus plexin domain containing 1 (Plxdc1), transcript variant 1, mRNA [NM_001163608]
A_55_P2054350	-0,78	-4,02	0,0291	Fbxo44	Mus musculus F-box protein 44 (Fbxo44), transcript variant 1, mRNA [NM_173401]
A_55_P2063495	-0,78	-6,36	0,0058	Dph3	Mus musculus diphthamine biosynthesis 3 (Dph3), transcript variant 1, mRNA [NM_172254]
A_51_P458794	-0,78	-3,57	0,0443	Zfp438	Mus musculus zinc finger protein 438 (Zfp438), mRNA [NM_178722]
A_52_P451888	-0,78	-5,64	0,0087	Tlk2	Mus musculus tousled-like kinase 2 (Arabidopsis) (Tlk2), transcript variant B, mRNA [NM_011903]
A_55_P2184197	-0,79	-3,54	0,0458	Yy2	Mus musculus Yy2 transcription factor (Yy2), mRNA [NM_001098723]
A_52_P294253	-0,79	-4,65	0,0170	Zfp41	Mus musculus zinc finger protein 41 (Zfp41), transcript variant 1, mRNA [NM_011759]
A_51_P254805	-0,79	-4,35	0,0217	Kif4	Mus musculus kinesin family member 4 (Kif4), mRNA [NM_008446]
A_55_P2080151	-0,79	-4,73	0,0161	Hspa2	Mus musculus heat shock protein 2 (Hspa2), transcript variant 1, mRNA [NM_008301]
A_51_P496804	-0,79	-6,93	0,0042	Adat2	Mus musculus adenosine deaminase, tRNA-specific 2 (Adat2), mRNA [NM_025748]
A_55_P1972719	-0,79	-4,74	0,0159	Pmm1	Mus musculus phosphomannomutase 1 (Pmm1), transcript variant 1, mRNA [NM_013872]
A_51_P469252	-0,79	-6,77	0,0046	Zfp647	Mus musculus zinc finger protein 647 (Zfp647), transcript variant 2, mRNA [NM_172817]
A_55_P1986993	-0,79	-4,62	0,0175	Brd8	Mus musculus bromodomain containing 8 (Brd8), transcript variant 1, mRNA [NM_030147]
A_55_P2106414	-0,79	-4,46	0,0199	Haus7	Mus musculus HAUS augmin-like complex, subunit 7 (Haus7), transcript variant 2, mRNA [NM_207104]
A_55_P2095261	-0,79	-3,45	0,0497	Ppp1r16a	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 16A (Ppp1r16a), mRNA [NM_033371]
A_55_P1952990	-0,79	-5,32	0,0106	Myl6b	Mus musculus myosin, light polypeptide 6B (Myl6b), mRNA [NM_172259]
A_55_P2018283	-0,79	-7,46	0,0030	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_65_P02321	-0,79	-6,45	0,0055	Usp36	Mus musculus ubiquitin specific peptidase 36 (Usp36), mRNA [NM_001033528]
A_51_P371255	-0,79	-5,85	0,0077	Rwdd2b	Mus musculus RWD domain containing 2B (Rwdd2b), mRNA [NM_016924]
A_55_P2071028	-0,79	-7,36	0,0032	Gm6195	PREDICTED: Mus musculus predicted pseudogene 6195 (Gm6195), mRNA [XM_885368]
A_51_P446558	-0,79	-5,15	0,0118	1810026J23Rik	Mus musculus RIKEN cDNA 1810026J23 gene (1810026J23Rik), mRNA [NM_178619]
A_66_P136097	-0,79	-5,13	0,0120	Trim13	Mus musculus tripartite motif-containing 13 (Trim13), transcript variant 1, mRNA [NM_001164220]
A_55_P2079324	-0,79	-3,84	0,0346	Sephs2	Mus musculus selenophosphate synthetase 2 (Sephs2), mRNA [NM_009266]
A_55_P2013336	-0,79	-4,36	0,0215	Melk	Mus musculus maternal embryonic leucine zipper kinase (Melk), mRNA [NM_010790]
A_52_P506271	-0,79	-3,48	0,0482	Cmtm4	Mus musculus CKLF-like MARVEL transmembrane domain containing 4 (Cmtm4), mRNA [NM_153582]
A_52_P164709	-0,79	-5,91	0,0074	Poc1a	Mus musculus POC1 centriolar protein homolog A (Chlamydomonas) (Poc1a), mRNA [NM_027354]
A_51_P393768	-0,79	-4,19	0,0249	Osbp	Mus musculus oxysterol binding protein (Osbp), mRNA [NM_001033174]
A_55_P2119633	-0,79	-3,71	0,0389	Gnal	Mus musculus guanine nucleotide binding protein, alpha stimulating, olfactory type (Gnal), transcript variant 2, mRNA [NM_177137]
A_55_P2142393	-0,79	-3,89	0,0326	Cacna1a	Mus musculus calcium channel, voltage-dependent, P/Q type, alpha 1A subunit (Cacna1a), transcript variant 1, mRNA [NM_007578]
A_55_P2080748	-0,79	-6,31	0,0060	BC003965	Mus musculus cDNA sequence BC003965 (BC003965), mRNA [NM_183150]
A_66_P136354	-0,79	-5,58	0,0090	Lcp2	Mus musculus lymphocyte cytosolic protein 2 (Lcp2), mRNA [NM_010696]
A_51_P338961	-0,80	-5,89	0,0075	Qser1	Mus musculus glutamine and serine rich 1 (Qser1), mRNA [NM_001123327]
A_51_P495077	-0,80	-3,58	0,0440	Ift22	Mus musculus intraflagellar transport 22 (Ift22), mRNA [NM_026073]
A_55_P2121491	-0,80	-8,17	0,0019	Bbs9	Mus musculus Bardet-Biedl syndrome 9 (human) (Bbs9), transcript variant 1, mRNA [NM_178415]
A_52_P62530	-0,80	-4,47	0,0197	Sc1t1	Mus musculus sodium channel and clathrin linker 1 (Sc1t1), mRNA [NM_001081411]
A_52_P399677	-0,80	-5,13	0,0120	Tprkb	Mus musculus Tp53rk binding protein (Tprkb), transcript variant 2, mRNA [NM_176842]
A_51_P185846	-0,80	-10,15	0,0006	Dnal4	Mus musculus dynein, axonemal, light chain 4 (Dnal4), mRNA [NM_017470]
A_55_P2027136	-0,80	-5,65	0,0086	Hist1h3f	Mus musculus histone cluster 1, H3f (Hist1h3f), mRNA [NM_013548]
A_55_P2081055	-0,80	-4,85	0,0147	1700056E22Rik	Mus musculus RIKEN cDNA 1700056E22 gene (1700056E22Rik), mRNA [NM_028516]
A_55_P2139456	-0,80	-5,33	0,0105	Odf2l	Mus musculus outer dense fiber of sperm tails 2-like (Odf2l), transcript variant 3, mRNA [NM_001162539]
A_51_P490509	-0,80	-6,18	0,0064	Bub1b	Mus musculus budding uninhibited by benzimidazoles 1 homolog, beta (S. cerevisiae) (Bub1b), mRNA [NM_009773]
A_51_P184306	-0,80	-3,59	0,0434	Ttc39d	Mus musculus tetratricopeptide repeat domain 39D (Ttc39d), mRNA [NM_026351]
A_66_P126254	-0,80	-5,47	0,0096	Gdf7	Mus musculus growth differentiation factor 7 (Gdf7), mRNA [NM_013527]
A_51_P372141	-0,80	-4,65	0,0170	Pnkd	Mus musculus paroxysmal nonkinesio-genic dyskinesia (Pnkd), transcript variant 3, mRNA [NM_001039509]
A_51_P198137	-0,80	-6,28	0,0061	Ubxn8	Mus musculus UBX domain protein 8 (Ubxn8), mRNA [NM_178648]

A_55_P2145531	-0,80	-7,06	0,0038	Mpst	Mus musculus mercaptopyruvate sulfurtransferase (Mpst), transcript variant 1, mRNA [NM_138670]
A_51_P410451	-0,80	-5,42	0,0099	Tube1	Mus musculus epsilon-tubulin 1 (Tube1), mRNA [NM_028006]
A_51_P116906	-0,80	-5,29	0,0106	Rapgef3	Mus musculus Rap guanine nucleotide exchange factor (GEF) 3 (Rapgef3), transcript variant 2, mRNA [NM_144850]
A_55_P2044207	-0,80	-4,45	0,0200	Bphl	Mus musculus biphenyl hydrolase-like (serine hydrolase, breast epithelial mucin-associated antigen) (Bphl), mRNA [NM_026512]
A_55_P2035286	-0,80	-4,86	0,0146	Uhrf1	Mus musculus ubiquitin-like, containing PHD and RING finger domains, 1 (Uhrf1), transcript variant 1, mRNA [NM_010931]
A_51_P423509	-0,80	-3,56	0,0449	2310003H01Rik	Mus musculus RIKEN cDNA 2310003H01 gene (2310003H01Rik), mRNA [NM_027980]
A_51_P506787	-0,80	-9,47	0,0009	Nap111	Mus musculus nucleosome assembly protein 1-like 1 (Nap111), transcript variant 1, mRNA [NM_001146707]
A_55_P2113524	-0,80	-4,16	0,0254	Whsc1	Mus musculus Wolf-Hirschhorn syndrome candidate 1 (human) (Whsc1), transcript variant 1, mRNA [NM_001081102]
A_51_P215077	-0,81	-5,05	0,0127	Mgst3	Mus musculus microsomal glutathione S-transferase 3 (Mgst3), mRNA [NM_025569]
A_52_P308507	-0,81	-5,69	0,0085	Chd6	Mus musculus chromodomain helicase DNA binding protein 6 (Chd6), mRNA [NM_173368]
A_55_P2026783	-0,81	-4,13	0,0261	Vprbp	Vpr (HIV-1) binding protein [Source:MGI Symbol;Acc:MGI:2445220] [ENSMUST0000055009]
A_51_P382805	-0,81	-6,59	0,0051	Zbp2	Mus musculus zona pellucida binding protein 2 (Zbp2), transcript variant 1, mRNA [NM_027061]
A_55_P1976430	-0,81	-3,93	0,0316	Fgf14	Mus musculus fibroblast growth factor 14 (Fgf14), transcript variant 2, mRNA [NM_207667]
A_55_P2128969	-0,81	-8,14	0,0019	Wbscr27	Mus musculus Williams Beuren syndrome chromosome region 27 (human) (Wbscr27), mRNA [NM_024479]
A_55_P2079390	-0,81	-5,13	0,0120	4930579G24Rik	Mus musculus RIKEN cDNA 4930579G24 gene (4930579G24Rik), mRNA [NM_029482]
A_52_P381303	-0,81	-5,18	0,0115	Gins2	Mus musculus GINS complex subunit 2 (Psf2 homolog) (Gins2), mRNA [NM_178856]
A_52_P303841	-0,81	-3,55	0,0451	Gm5296	Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230378H01 product:unclassifiable, full insert sequence. [AK046383]
A_51_P262721	-0,81	-9,24	0,0010	0610009L18Rik	Mus musculus RIKEN cDNA 0610009L18 gene (0610009L18Rik), long non-coding RNA [NR_038126]
A_55_P2037478	-0,81	-5,09	0,0124	Kifap3	Mus musculus kinesin-associated protein 3 (Kifap3), mRNA [NM_010629]
A_52_P89099	-0,81	-4,53	0,0189	Nolc1	Mus musculus nucleolar and coiled-body phosphoprotein 1 (Nolc1), transcript variant 3, mRNA [NM_001039352]
A_55_P2094966	-0,81	-4,03	0,0288	Hist2h3b	Mus musculus histone cluster 2, H3b (Hist2h3b), mRNA [NM_178215]
A_52_P587948	-0,81	-4,25	0,0237	Zfp11	Mus musculus zinc finger protein 11 (Zfp11), mRNA [NM_172462]
A_55_P1960117	-0,81	-3,73	0,0382	1190002N15Rik	Mus musculus RIKEN cDNA 1190002N15 gene (1190002N15Rik), mRNA [NM_001033145]
A_52_P584188	-0,81	-4,23	0,0239	Frat1	Mus musculus frequently rearranged in advanced T cell lymphomas (Frat1), mRNA [NM_008043]
A_55_P2049831	-0,81	-3,90	0,0324	1700023D09Rik	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730098P03 product:RIKEN cDNA 1700023D09 gene, full insert sequence. [AK043475]
A_51_P255565	-0,81	-4,70	0,0164	Smarcad1	Mus musculus SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1 (Smarcad1), transcript variant 1, mRNA [NM_007958]
A_52_P512329	-0,81	-5,69	0,0085	Zfp219	Mus musculus zinc finger protein 219 (Zfp219), transcript variant 1, mRNA [NM_027248]
A_55_P2131483	-0,81	-6,75	0,0046	Hmgb1	Mus musculus high mobility group box 1 (Hmgb1), mRNA [NM_010439]
A_55_P1976789	-0,81	-7,45	0,0030	Dgcr6	Mus musculus DiGeorge syndrome critical region gene 6 (Dgcr6), transcript variant 3, mRNA [NM_010047]
A_52_P54856	-0,81	-6,89	0,0043	Ubal1	Mus musculus UBA-like domain containing 1 (Ubal1), mRNA [NM_145359]
A_52_P623058	-0,81	-6,73	0,0047	R3hdm4	Mus musculus R3H domain containing 4 (R3hdm4), mRNA [NM_177994]
A_51_P208931	-0,82	-7,16	0,0036	N4bp3	Mus musculus NEDD4 binding protein 3 (N4bp3), mRNA [NM_145974]
A_52_P153327	-0,82	-4,50	0,0192	37500	Mus musculus septin 2 (Sept2), transcript variant 2, mRNA [NM_010891]
A_55_P2034796	-0,82	-3,82	0,0350	LOC101055753	PREDICTED: Mus musculus zinc finger protein 709-like (LOC101055753), partial mRNA [XM_006535333]
A_51_P347240	-0,82	-4,73	0,0160	Lrr1	Mus musculus leucine rich repeat protein 1 (Lrr1), mRNA [NM_001081406]
A_55_P2107686	-0,82	-4,47	0,0197	Ttl1	Mus musculus tubulin tyrosine ligase-like 1 (Ttl1), mRNA [NM_178869]
A_52_P672722	-0,82	-5,23	0,0111	E430018J23Rik	Mus musculus RIKEN cDNA E430018J23 gene, mRNA (cDNA clone MGC:8032 IMAGE:3586722), complete cds. [BC010442]
A_55_P2035326	-0,82	-6,08	0,0067	D5Ert605e	Mus musculus DNA segment, Chr 5, ERATO Doi 605, expressed (D5Ert605e), long non-coding RNA [NR_033625]
A_52_P148658	-0,82	-5,42	0,0099	Mettl22	Mus musculus methyltransferase like 22 (Mettl22), mRNA [NM_146247]
A_51_P290921	-0,82	-4,80	0,0153	Syt12	Mus musculus synaptotagmin-like 2 (Syt12), transcript variant 4, mRNA [NM_001040087]
A_52_P300856	-0,82	-4,50	0,0193	D130020L05Rik	Mus musculus RIKEN cDNA D130020L05 gene (D130020L05Rik), transcript variant 4, long non-coding RNA [NR_038050]
A_55_P2429432	-0,82	-4,03	0,0287	2610301B20Rik	Mus musculus RIKEN cDNA 2610301B20 gene (2610301B20Rik), mRNA [NM_026005]
A_55_P2205156	-0,82	-5,63	0,0088	Aamdc	Mus musculus adipogenesis associated Mth938 domain containing (Aamdc), transcript variant 3, mRNA [NM_001177946]
A_52_P549927	-0,82	-4,59	0,0178	5730455P16Rik	Mus musculus RIKEN cDNA 5730455P16 gene (5730455P16Rik), mRNA [NM_027472]
A_51_P519791	-0,82	-6,99	0,0040	Ska3	Mus musculus spindle and kinetochore associated complex subunit 3 (Ska3), mRNA [NM_198605]

A_55_P2109263	-0.82	-6.58	0,0051	Ppp1r14b	Mus musculus protein phosphatase 1, regulatory (inhibitor) subunit 14B (Ppp1r14b), mRNA [NM_008889]
A_52_P129443	-0.83	-3.91	0,0322	Wdpcp	Mus musculus WD repeat containing planar cell polarity effector (Wdpcp), mRNA [NM_145425]
A_51_P100174	-0.83	-5.72	0,0084	Mns1	Mus musculus meiosis-specific nuclear structural protein 1 (Mns1), mRNA [NM_008613]
A_51_P358316	-0.83	-3.50	0,0475	Chga	Mus musculus chromogranin A (Chga), mRNA [NM_007693]
A_51_P351137	-0.83	-4.69	0,0165	Tbce	Mus musculus tubulin-specific chaperone E (Tbce), mRNA [NM_178337]
A_55_P2003473	-0.83	-7.00	0,0040	Zc4h2	Mus musculus zinc finger, C4H2 domain containing (Zc4h2), transcript variant 2, mRNA [NM_001289696]
A_55_P2071251	-0.83	-3.70	0,0391	Trappc11	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730026P21 product:OVARC1001768 protein homolog, full insert sequence. [AK042816]
A_51_P383991	-0.83	-5.33	0,0105	38231	Mus musculus septin 4 (Sept4), transcript variant 1, mRNA [NM_011129]
A_51_P381584	-0.83	-3.46	0,0496	Stx6	Mus musculus syntaxin 6 (Stx6), mRNA [NM_021433]
A_51_P400581	-0.83	-6.03	0,0069	Anp32e	Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member E (Anp32e), transcript variant 1, mRNA [NM_023210]
A_55_P2131438	-0.83	-6.92	0,0042	Hist2h2aa2	Mus musculus histone cluster 2, H2aa2 (Hist2h2aa2), mRNA [NM_178212]
A_52_P171019	-0.83	-5.08	0,0124	Man1a	Mus musculus mannosidase 1, alpha (Man1a), mRNA [NM_008548]
A_52_P27020	-0.83	-3.78	0,0366	Sgol2	Mus musculus shugoshin-like 2 (S. pombe), transcript variant 1, mRNA [NM_199007]
A_52_P510107	-0.83	-4.72	0,0161	Nudt15	Mus musculus nudix (nucleoside diphosphate linked moiety X)-type motif 15 (Nudt15), mRNA [NM_172527]
A_55_P2042918	-0.83	-4.92	0,0140	Trim37	Mus musculus tripartite motif-containing 37 (Trim37), mRNA [NM_197987]
A_52_P10037	-0.84	-4.16	0,0254	Asf1a	Mus musculus ASF1 anti-silencing function 1 homolog A (S. cerevisiae) (Asf1a), mRNA [NM_025541]
A_55_P2185870	-0.84	-8.15	0,0019	Bcl7a	Mus musculus B cell CLL/lymphoma 7A (Bcl7a), mRNA [NM_029850]
A_52_P246889	-0.84	-4.69	0,0165	Chmp3	Mus musculus charged multivesicular body protein 3 (Chmp3), mRNA [NM_025783]
A_52_P494982	-0.84	-4.57	0,0182	Dhx40	Mus musculus DEAH (Asp-Glu-Ala-His) box polypeptide 40 (Dhx40), mRNA [NM_026191]
A_51_P360880	-0.84	-4.64	0,0171	Zfp266	Mus musculus zinc finger protein 266 (Zfp266), transcript variant 1, mRNA [NM_001082485]
A_66_P119350	-0.84	-4.44	0,0201	2310040G24 Rik	Mus musculus RIKEN cDNA 2310040G24 gene (2310040G24Rik), transcript variant 2, long non-coding RNA [NR_040293]
A_52_P597608	-0.84	-3.73	0,0382	Stk16	Mus musculus serine/threonine kinase 16 (Stk16), transcript variant 1, mRNA [NM_011494]
A_55_P2097022	-0.84	-6.02	0,0070	Eid1	Mus musculus EP300 interacting inhibitor of differentiation 1 (Eid1), mRNA [NM_025613]
A_51_P161265	-0.84	-3.59	0,0436	Ccl25	Mus musculus chemokine (C-C motif) ligand 25 (Ccl25), transcript variant 1, mRNA [NM_009138]
A_52_P632191	-0.84	-4.19	0,0248	Nfx1	Mus musculus nuclear transcription factor, X-box binding 1 (Nfx1), transcript variant 1, mRNA [NM_023739]
A_55_P1999908	-0.84	-4.30	0,0227	Pip5k1a	Mus musculus phosphatidylinositol-4-phosphate 5-kinase, type 1 alpha (Pip5k1a), mRNA [NM_008847]
A_55_P1960286	-0.84	-5.74	0,0083	Spns3	Mus musculus spinster homolog 3 (Spns3), mRNA [NM_029932]
A_66_P132832	-0.85	-4.68	0,0165	Myzap	Mus musculus myocardial zonula adherens protein (Myzap), mRNA [NM_001033208]
A_51_P214825	-0.85	-4.72	0,0161	Orc5	Mus musculus origin recognition complex, subunit 5 (Orc5), mRNA [NM_011959]
A_55_P2076048	-0.85	-4.71	0,0162	Nuf2	Mus musculus NUF2, NDC80 kinetochore complex component, homolog (S. cerevisiae) (Nuf2), mRNA [NM_023284]
A_51_P351697	-0.85	-3.68	0,0399	Mrpl35	Mus musculus mitochondrial ribosomal protein L35 (Mrpl35), mRNA [NM_025430]
A_55_P2107402	-0.85	-4.09	0,0271	Gm9855	Mus musculus predicted pseudogene 9855 (Gm9855), non-coding RNA [NR_037190]
A_51_P165082	-0.85	-5.06	0,0126	Tmem191c	Mus musculus transmembrane protein 191C (Tmem191c), mRNA [NM_177473]
A_55_P2383248	-0.85	-5.15	0,0118	4930422N03 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930422N03 product:unclassifiable, full insert sequence. [AK015184]
A_55_P2092194	-0.85	-5.84	0,0077	Camkmt	Mus musculus calmodulin-lysine N-methyltransferase (Camkmt), mRNA [NM_028576]
A_55_P2083824	-0.85	-5.53	0,0092	1700085B13 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:1700085B13 product:unclassifiable, full insert sequence. [AK007003]
A_52_P638513	-0.85	-6.54	0,0052	2310061J03R ik	Mus musculus RIKEN cDNA 2310061J03 gene (2310061J03Rik), long non-coding RNA [NR_027965]
A_55_P2073935	-0.85	-5.22	0,0112	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 1, mRNA [NM_013790]
A_66_P100853	-0.85	-7.38	0,0031	Hist1h2ao	Mus musculus histone cluster 1, H2ao (Hist1h2ao), mRNA [NM_001177544]
A_55_P1962284	-0.85	-3.71	0,0389	Klhl24	Mus musculus kelch-like 24 (Klhl24), mRNA [NM_029436]
A_55_P2182433	-0.85	-3.87	0,0336	Atg10	Mus musculus autophagy related 10 (Atg10), mRNA [NM_025770]
A_51_P226932	-0.85	-7.46	0,0030	Tubgcp2	Mus musculus tubulin, gamma complex associated protein 2 (Tubgcp2), transcript variant 2, mRNA [NM_133755]
A_55_P2125778	-0.85	-5.37	0,0103	Sec14l1	Mus musculus SEC14-like 1 (S. cerevisiae) (Sec14l1), transcript variant 1, mRNA [NM_028777]
A_65_P08881	-0.85	-5.24	0,0109	Pabpc1l	Mus musculus poly(A) binding protein, cytoplasmic 1-like (Pabpc1l), mRNA [NM_001114079]
A_51_P456857	-0.85	-5.85	0,0077	Ift122	Mus musculus intraflagellar transport 122 (Ift122), transcript variant 1, mRNA [NM_031177]

A_55_P2014867	-0.86	-5.81	0,0079	lws1	Mus musculus IWS1 homolog (S. cerevisiae) (lws1), mRNA [NM_173441]
A_55_P2334112	-0.86	-4.10	0,0270	1700096K18 Rik	Mus musculus RIKEN cDNA 1700096K18 gene (1700096K18Rik), long non-coding RNA [NR_027388]
A_55_P2124016	-0.86	-6.71	0,0047	Nipsnap1	Mus musculus 4-nitrophenylphosphatase domain and non-neuronal SNAP25-like protein homolog 1 (C. elegans) (Nipsnap1), mRNA [NM_008698]
A_66_P132218	-0.86	-3.65	0,0410	Gm4430	Mus musculus 7 days neonate cerebellum cDNA, RIKEN full-length enriched library, clone:A730008M19 product:unclassifiable, full insert sequence. [AK042594]
A_55_P2343151	-0.86	-4.15	0,0256	Akap1	Mus musculus A kinase (PRKA) anchor protein 1 (Akap1), transcript variant 2, mRNA [NM_001042541]
A_55_P2114482	-0.86	-4.48	0,0195	Rpgr	Mus musculus retinitis pigmentosa GTPase regulator (Rpgr), transcript variant 1, mRNA [NM_001177950]
A_55_P2012563	-0.86	-4.03	0,0286	Cacnb1	Mus musculus calcium channel, voltage-dependent, beta 1 subunit (Cacnb1), transcript variant 1, mRNA [NM_031173]
A_52_P137559	-0.86	-7.69	0,0026	Rtttn	Mus musculus rotatin (Rtttn), mRNA [NM_175542]
A_55_P2088870	-0.86	-4.20	0,0248	Zbtb37	Mus musculus zinc finger and BTB domain containing 37 (Zbtb37), mRNA [NM_173424]
A_55_P2180764	-0.86	-7.65	0,0027	Gls	Mus musculus glutaminase (Gls), transcript variant 1, mRNA [NM_001081081]
A_55_P2146404	-0.87	-5.65	0,0087	Kansl1	Mus musculus KAT8 regulatory NSL complex subunit 1 (Kansl1), mRNA [NM_001081045]
A_51_P213592	-0.87	-4.46	0,0199	Nrde2	Mus musculus nrde-2 necessary for RNA interference, domain containing (Nrde2), transcript variant 1, mRNA [NM_001290303]
A_52_P601980	-0.87	-4.62	0,0175	Kdm5b	Mus musculus lysine (K)-specific demethylase 5B (Kdm5b), mRNA [NM_152895]
A_51_P421182	-0.87	-4.45	0,0200	Sys1	Mus musculus SYS1 Golgi-localized integral membrane protein homolog (S. cerevisiae) (Sys1), mRNA [NM_025575]
A_52_P127465	-0.87	-4.20	0,0247	Ypel1	Mus musculus yippee-like 1 (Drosophila) (Ypel1), transcript variant 2, mRNA [NM_023249]
A_55_P1996484	-0.87	-3.93	0,0317	Nphs2	Mus musculus nephrosis 2, podocin (Nphs2), mRNA [NM_130456]
A_52_P69020	-0.87	-4.05	0,0283	Slc24a5	Mus musculus solute carrier family 24, member 5 (Slc24a5), mRNA [NM_175034]
A_52_P219372	-0.87	-3.58	0,0441	Tmem177	Mus musculus transmembrane protein 177 (Tmem177), mRNA [NM_175106]
A_52_P65077	-0.87	-4.25	0,0237	Zfp820	Mus musculus zinc finger protein 820 (Zfp820), mRNA [NM_029281]
A_52_P565165	-0.87	-4.06	0,0280	Gcfc2	Mus musculus GC-rich sequence DNA binding factor 2 (Gcfc2), mRNA [NM_177884]
A_55_P2063126	-0.87	-4.25	0,0237	Inadl	Mus musculus InaD-like (Drosophila) (Inadl), transcript variant 1, mRNA [NM_172696]
A_51_P488554	-0.87	-7.22	0,0034	3010026009 Rik	Mus musculus RIKEN cDNA 3010026009 gene (3010026009Rik), mRNA [NM_026543]
A_55_P1963529	-0.87	-6.36	0,0058	Abcb10	Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 10 (Abcb10), mRNA [NM_019552]
A_51_P492830	-0.87	-4.78	0,0155	Cenph	Mus musculus centromere protein H (Cenph), mRNA [NM_021886]
A_52_P371063	-0.87	-5.02	0,0130	Iqcc	Mus musculus IQ motif containing C (Iqcc), mRNA [NM_198026]
A_66_P136834	-0.88	-6.44	0,0055	Usp7	Mus musculus ubiquitin specific peptidase 7 (Usp7), mRNA [NM_001003918]
A_51_P115374	-0.88	-4.66	0,0170	Pot1b	Mus musculus protection of telomeres 1B (Pot1b), mRNA [NM_028370]
A_55_P2014427	-0.88	-5.66	0,0086	Il17re	Mus musculus interleukin 17 receptor E (Il17re), transcript variant 3, mRNA [NM_001034031]
A_51_P448447	-0.88	-3.84	0,0343	Nupl2	Mus musculus nucleoporin like 2 (Nupl2), mRNA [NM_153092]
A_55_P2011355	-0.88	-4.65	0,0170	Cyb561a3	PREDICTED: Mus musculus cytochrome b561 family, member A3 (Cyb561a3), transcript variant X1, mRNA [XM_006526935]
A_55_P2106569	-0.88	-4.70	0,0164	Hist1h4d	Mus musculus histone cluster 1, H4d (Hist1h4d), mRNA [NM_175654]
A_52_P551707	-0.88	-9.49	0,0009	Kdm6a	Mus musculus lysine (K)-specific demethylase 6A (Kdm6a), mRNA [NM_009483]
A_55_P2066309	-0.88	-6.55	0,0052	Slc39a8	Mus musculus solute carrier family 39 (metal ion transporter), member 8 (Slc39a8), transcript variant 1, mRNA [NM_001135150]
A_51_P416509	-0.88	-5.31	0,0106	Hist1h1a	Mus musculus histone cluster 1, H1a (Hist1h1a), mRNA [NM_030609]
A_51_P502957	-0.88	-3.65	0,0412	Stxbp4	Mus musculus syntaphin binding protein 4 (Stxbp4), mRNA [NM_011505]
A_55_P2164297	-0.88	-4.52	0,0190	Rnps1	Mus musculus ribonucleic acid binding protein S1 (Rnps1), transcript variant 1, mRNA [NM_009070]
A_55_P1965616	-0.88	-3.81	0,0354	1700019G17 Rik	Mus musculus RIKEN cDNA 1700019G17 gene (1700019G17Rik), transcript variant 1, mRNA [NM_029331]
A_52_P125350	-0.88	-4.70	0,0163	Anp32e	Mus musculus acidic (leucine-rich) nuclear phosphoprotein 32 family, member E (Anp32e), transcript variant 1, mRNA [NM_023210]
A_52_P475870	-0.88	-6.42	0,0056	Tmem29	Mus musculus transmembrane protein 29 (Tmem29), transcript variant 3, mRNA [NM_001164686]
A_55_P2010048	-0.88	-4.17	0,0252	LOC102642487	PREDICTED: Mus musculus uncharacterized LOC102642487 (LOC102642487), mRNA [XM_006543762]
A_55_P2097340	-0.88	-5.06	0,0126	Camkv	Mus musculus CaM kinase-like vesicle-associated (Camkv), mRNA [NM_145621]
A_55_P1967295	-0.88	-6.23	0,0062	Pemt	Mus musculus phosphatidylethanolamine N-methyltransferase (Pemt), transcript variant 2, mRNA [NM_008819]
A_55_P2354531	-0.88	-6.88	0,0043	2610029K11 Rik	Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2610029K11 product:unclassifiable, full insert sequence. [AK011616]
A_55_P2100209	-0.89	-4.99	0,0133	Kif2c	Mus musculus kinesin family member 2C (Kif2c), transcript variant 2, mRNA [NM_001290662]
A_55_P2138333	-0.89	-3.96	0,0306	Mad2l1	Mus musculus MAD2 mitotic arrest deficient-like 1 (Mad2l1), mRNA [NM_019499]

A_51_P155747	-0.89	-6.18	0.0064	Scyl3	Mus musculus SCY1-like 3 (S. cerevisiae) (Scyl3), transcript variant 1, mRNA [NM_028776]
A_52_P148212	-0.89	-3.99	0.0298	Mis18bp1	Mus musculus MIS18 binding protein 1 (Mis18bp1), mRNA [NM_172578]
A_66_P127224	-0.89	-4.81	0.0151	Krt10	Mus musculus keratin 10 (Krt10), mRNA [NM_010660]
A_52_P667287	-0.89	-3.65	0.0412	Cers6	Mus musculus ceramide synthase 6 (Cers6), mRNA [NM_172856]
A_55_P2103796	-0.89	-6.10	0.0066	Arhgap11a	Mus musculus Rho GTPase activating protein 11A (Arhgap11a), mRNA [NM_181416]
A_52_P274028	-0.89	-5.78	0.0081	Ssr1	Mus musculus signal sequence receptor, alpha (Ssr1), mRNA [NM_025965]
A_51_P388329	-0.89	-4.84	0.0148	Aff3	Mus musculus AF4/FMR2 family, member 3 (Aff3), mRNA [NM_001290814]
A_55_P2014555	-0.89	-5.07	0.0125	Lrp8	Mus musculus low density lipoprotein receptor-related protein 8, apolipoprotein e receptor (Lrp8), transcript variant 2, mRNA [NM_001080926]
A_51_P251587	-0.89	-6.94	0.0042	Psmc9	Mus musculus proteasome (prosome, macropain) 26S subunit, non-ATPase, 9 (Psmc9), mRNA [NM_026000]
A_55_P2326205	-0.90	-3.78	0.0366	Z810405F17 Rik	Mus musculus 10, 11 days embryo whole body cDNA, RIKEN full-length enriched library, clone:Z810405F17 product:unclassifiable, full insert sequence. [AK012993]
A_52_P517204	-0.90	-3.56	0.0446	Zfp526	Mus musculus zinc finger protein 526 (Zfp526), mRNA [NM_175436]
A_51_P311905	-0.90	-7.62	0.0027	Elp6	Mus musculus elongator acetyltransferase complex subunit 6 (Elp6), mRNA [NM_001081381]
A_55_P1974612	-0.90	-5.51	0.0093	C030039L03 Rik	Mus musculus RIKEN cDNA C030039L03 gene (C030039L03Rik), transcript variant 1, mRNA [NM_001112731]
A_55_P2165011	-0.90	-3.92	0.0319	Fut10	Mus musculus fucosyltransferase 10 (Fut10), transcript variant 3, mRNA [NM_134161]
A_55_P2183652	-0.90	-5.33	0.0105	Foxd2os	Mus musculus forkhead box D2, opposite strand (Foxd2os), long non-coding RNA [NR_030721]
A_55_P2017302	-0.90	-6.41	0.0056	Gnb1l	Mus musculus guanine nucleotide binding protein (G protein), beta polypeptide 1-like (Gnb1l), transcript variant 5, mRNA [NM_001285493]
A_52_P615312	-0.90	-4.83	0.0150	Mrps27	Mus musculus mitochondrial ribosomal protein S27 (Mrps27), mRNA [NM_173757]
A_51_P195034	-0.90	-4.80	0.0153	Esco2	Mus musculus establishment of cohesion 1 homolog 2 (S. cerevisiae) (Esco2), mRNA [NM_028039]
A_52_P470401	-0.90	-8.65	0.0014	Tmem186	Mus musculus transmembrane protein 186 (Tmem186), mRNA [NM_025708]
A_66_P122781	-0.90	-6.53	0.0053	BC025920	Mus musculus cDNA sequence BC025920 (BC025920), non-coding RNA [NR_030677]
A_55_P2066827	-0.90	-6.14	0.0065	Hexim2	Mus musculus hexamethylene bis-acetamide inducible 2 (Hexim2), transcript variant 1, mRNA [NM_027658]
A_55_P2127884	-0.90	-3.70	0.0390	Btbd1	Mus musculus BTB (POZ) domain containing 1 (Btbd1), mRNA [NM_146193]
A_51_P233308	-0.91	-6.56	0.0052	Zfp944	Mus musculus zinc finger protein 944 (Zfp944), mRNA [NM_176962]
A_51_P252103	-0.91	-6.15	0.0065	Sla2	Mus musculus Src-like-adaptor 2 (Sla2), mRNA [NM_029983]
A_55_P2033917	-0.91	-4.16	0.0254	Fut10	Mus musculus fucosyltransferase 10 (Fut10), transcript variant 1, mRNA [NM_001286422]
A_55_P2001028	-0.91	-5.58	0.0090	Ppp2r3c	Mus musculus protein phosphatase 2, regulatory subunit B", gamma (Ppp2r3c), mRNA [NM_021529]
A_55_P2183854	-0.91	-3.52	0.0469	Sctr	Mus musculus secretin receptor (Sctr), mRNA [NM_001012322]
A_52_P67444	-0.91	-3.77	0.0370	Arih1	Mus musculus ariadne ubiquitin-conjugating enzyme E2 binding protein homolog 1 (Drosophila) (Arih1), mRNA [NM_019927]
A_55_P1980631	-0.91	-4.13	0.0262	Aurkb	Mus musculus aurora kinase B (Aurkb), mRNA [NM_011496]
A_51_P451338	-0.91	-6.66	0.0049	Jag2	Mus musculus jagged 2 (Jag2), mRNA [NM_010588]
A_55_P2131138	-0.91	-6.80	0.0045	Gm5878	Mus musculus predicted gene 5878 (Gm5878), mRNA [NM_001034902]
A_52_P36928	-0.91	-3.63	0.0417	Morn2	Mus musculus MORN repeat containing 2 (Morn2), mRNA [NM_194269]
A_55_P2150953	-0.91	-4.11	0.0266	Gm4827	Mus musculus predicted gene 4827 (Gm4827), long non-coding RNA [NR_045935]
A_55_P2073705	-0.91	-7.34	0.0032	Tfdp2	Mus musculus transcription factor Dp 2 (Tfdp2), transcript variant 1, mRNA [NM_178667]
A_55_P2102195	-0.92	-4.25	0.0237	Lztf1	Mus musculus leucine zipper transcription factor-like 1 (Lztf1), mRNA [NM_033322]
A_52_P130727	-0.92	-3.77	0.0368	Ldoc1l	Mus musculus leucine zipper, down-regulated in cancer 1-like (Ldoc1l), mRNA [NM_177630]
A_55_P1984098	-0.92	-5.57	0.0090	Mst1	Mus musculus macrophage stimulating 1 (hepatocyte growth factor-like) (Mst1), mRNA [NM_008243]
A_55_P2118259	-0.92	-4.94	0.0138	Olfir1349	Mus musculus olfactory receptor 1349 (Olfir1349), mRNA [NM_207136]
A_51_P345316	-0.92	-5.14	0.0120	Cep76	Mus musculus centrosomal protein 76 (Cep76), mRNA [NM_001081073]
A_55_P2121886	-0.92	-3.68	0.0401	Map3k9	Mus musculus mitogen-activated protein kinase kinase kinase 9 (Map3k9), transcript variant 1, mRNA [NM_001174107]
A_55_P2042934	-0.92	-8.67	0.0014	Zcchc4	zinc finger, CCHC domain containing 4 [Source:MGI Symbol;Acc:MGI:1926046] [ENSIMUST00000113904]
A_51_P116007	-0.92	-4.97	0.0135	Hdac2	Mus musculus histone deacetylase 2 (Hdac2), mRNA [NM_008229]
A_55_P2168466	-0.92	-4.84	0.0149	Brox	Mus musculus BRO1 domain and CAAX motif containing (Brox), mRNA [NM_027861]
A_52_P413623	-0.93	-6.50	0.0054	Usp22	Mus musculus ubiquitin specific peptidase 22 (Usp22), mRNA [NM_001004143]
A_55_P2168461	-0.93	-5.23	0.0110	Brox	Mus musculus BRO1 domain and CAAX motif containing (Brox), mRNA [NM_027861]
A_55_P2013928	-0.93	-7.85	0.0023	Dhrs13	Mus musculus dehydrogenase/reductase (SDR family) member 13 (Dhrs13), mRNA [NM_183286]



A_52_P309337	-0.93	-4.78	0,0155	Metap2	Mus musculus methionine aminopeptidase 2 (Metap2), mRNA [NM_019648]
A_55_P2073940	-0.93	-6.93	0,0042	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 2, mRNA [NM_176839]
A_51_P163476	-0.93	-4.41	0,0206	5430403G16 Rik	Mus musculus 6 days neonate head cDNA, RIKEN full-length enriched library, clone:5430403G16 product:weakly similar to zinc finger protein ZNF126 (fragment) [Homo sapiens], full insert sequence. [AK019943]
A_52_P420466	-0.93	-4.50	0,0194	Hist1h2ab	Mus musculus histone cluster 1, H2ab (Hist1h2ab), mRNA [NM_175660]
A_51_P376711	-0.93	-3.66	0,0406	Gm15498	Mus musculus predicted gene, OTTMUSG00000022819, mRNA (cDNA clone MGC:41618 IMAGE:1265093), complete cds. [BC028660]
A_55_P2014520	-0.93	-4.80	0,0153	Zfp787	Mus musculus zinc finger protein 787 (Zfp787), mRNA [NM_001013012]
A_55_P1997831	-0.93	-6.45	0,0055	Dbndd1	Mus musculus dysbindin (dystrobrein binding protein 1) domain containing 1 (Dbndd1), transcript variant 1, mRNA [NM_028146]
A_52_P211418	-0.93	-5.96	0,0072	G2e3	Mus musculus G2/M-phase specific E3 ubiquitin ligase (G2e3), transcript variant 2, mRNA [NM_001167963]
A_55_P2138956	-0.93	-7.12	0,0037	Tpk1	thiamine pyrophosphokinase [Source:MGI Symbol;Acc:MGI:1352500] [ENSIMUST00000150599]
A_51_P450549	-0.94	-7.09	0,0037	Padi3	Mus musculus peptidyl arginine deiminase, type III (Padi3), mRNA [NM_011060]
A_52_P157170	-0.94	-8.42	0,0016	Rnf157	Mus musculus ring finger protein 157 (Rnf157), mRNA [NM_027258]
A_55_P2022181	-0.94	-4.72	0,0162	Arvcf	Mus musculus armadillo repeat gene deleted in velo-cardio-facial syndrome (Arvcf), transcript variant 1, mRNA [NM_033474]
A_51_P111532	-0.94	-3.91	0,0322	Ubash3a	Mus musculus ubiquitin associated and SH3 domain containing, A (Ubash3a), mRNA [NM_177823]
A_51_P156934	-0.94	-9.44	0,0009	Dnajc15	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 15 (Dnajc15), mRNA [NM_025384]
A_51_P364560	-0.94	-3.61	0,0426	D330050116 Rik	Mus musculus RIKEN cDNA D330050116 gene (D330050116Rik), long non-coding RNA [NR_033224]
A_51_P141634	-0.94	-6.49	0,0054	Pskh1	Mus musculus protein serine kinase H1 (Pskh1), mRNA [NM_173432]
A_55_P1968833	-0.94	-5.56	0,0091	Rpgr	Mus musculus retinitis pigmentosa GTPase regulator (Rpgr), transcript variant 1, mRNA [NM_001177950]
A_55_P2040588	-0.94	-4.51	0,0192	Pabpc5	Mus musculus poly(A) binding protein, cytoplasmic 5 (Pabpc5), mRNA [NM_053114]
A_55_P2015495	-0.94	-5.29	0,0106	Abat	Mus musculus 4-aminobutyrate aminotransferase (Abat), transcript variant 1, mRNA [NM_172961]
A_52_P613643	-0.94	-4.88	0,0145	Zfp3	Mus musculus zinc finger protein 3 (Zfp3), mRNA [NM_177565]
A_55_P2172892	-0.95	-5.39	0,0101	1700080G18 Rik	PREDICTED: Mus musculus RIKEN cDNA 1700080G18 gene (1700080G18Rik), mRNA [XM_006505217]
A_51_P370510	-0.95	-4.74	0,0159	BC022687	Mus musculus cDNA sequence BC022687 (BC022687), mRNA [NM_145450]
A_55_P2056473	-0.95	-7.37	0,0032	Spc24	Mus musculus SPC24, NDC80 kinetochore complex component, homolog (S. cerevisiae) (Spc24), mRNA [NM_026282]
A_66_P129188	-0.95	-8.35	0,0017	Hist2h2ac	Mus musculus histone cluster 2, H2ac (Hist2h2ac), mRNA [NM_175662]
A_52_P343641	-0.95	-4.32	0,0224	Siah1a	Mus musculus seven in absentia 1A (Siah1a), mRNA [NM_009172]
A_55_P2084656	-0.95	-7.56	0,0028	Hist1h2ah	Mus musculus histone cluster 1, H2ah (Hist1h2ah), mRNA [NM_175659]
A_51_P136792	-0.95	-4.05	0,0281	Calcoco1	Mus musculus calcium binding and coiled coil domain 1 (Calcoco1), mRNA [NM_026192]
A_51_P280401	-0.95	-3.62	0,0422	Tcta	Mus musculus T cell leukemia translocation altered gene (Tcta), mRNA [NM_133986]
A_52_P411003	-0.95	-4.57	0,0182	Dlgap5	Mus musculus discs, large (Drosophila) homolog-associated protein 5 (Dlgap5), mRNA [NM_144553]
A_52_P662244	-0.95	-5.15	0,0119	Slc25a47	Mus musculus solute carrier family 25, member 47 (Slc25a47), mRNA [NM_001012310]
A_52_P496628	-0.95	-5.26	0,0109	2700081015 Rik	Mus musculus RIKEN cDNA 2700081015 gene (2700081015Rik), mRNA [NM_175381]
A_51_P337089	-0.95	-4.56	0,0184	Gins1	Mus musculus GINS complex subunit 1 (Psf1 homolog) (Gins1), transcript variant 1, mRNA [NM_027014]
A_55_P2149107	-0.95	-4.31	0,0226	BC055324	Mus musculus cDNA sequence BC055324 (BC055324), mRNA [NM_201364]
A_55_P2032714	-0.96	-6.64	0,0049	Fhit	Mus musculus fragile histidine triad gene (Fhit), mRNA [NM_010210]
A_52_P398279	-0.96	-6.83	0,0044	Ddx26b	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 26B [Source:MGI Symbol;Acc:MGI:2442593] [ENSIMUST00000134138]
A_51_P165060	-0.96	-6.43	0,0056	Slc22a5	Mus musculus solute carrier family 22 (organic cation transporter), member 5 (Slc22a5), mRNA [NM_011396]
A_55_P2151616	-0.96	-6.08	0,0067	Hbs1l	Mus musculus Hbs1-like (S. cerevisiae) (Hbs1l), transcript variant 3, mRNA [NM_001145209]
A_55_P2099520	-0.96	-4.59	0,0178	H2afv	Mus musculus H2A histone family, member V (H2afv), mRNA [NM_029938]
A_52_P80965	-0.96	-3.88	0,0332	Sephs1	Mus musculus selenophosphate synthetase 1 (Sephs1), mRNA [NM_175400]
A_55_P2168417	-0.96	-3.73	0,0384	Cul2	Mus musculus cullin 2 (Cul2), mRNA [NM_029402]
A_55_P2068406	-0.96	-6.01	0,0070	2410018L13 Rik	Mus musculus RIKEN cDNA 2410018L13 gene (2410018L13Rik), long non-coding RNA [NR_015504]
A_51_P269634	-0.96	-3.57	0,0444	Zfp14	Mus musculus zinc finger protein 14 (Zfp14), transcript variant 1, mRNA [NM_011748]
A_51_P521171	-0.97	-5.68	0,0085	Hif1an	Mus musculus hypoxia-inducible factor 1, alpha subunit inhibitor (Hif1an), mRNA [NM_176958]
A_55_P2105045	-0.97	-4.03	0,0287	Zfp335os	PREDICTED: Mus musculus zinc finger protein 335, opposite strand (Zfp335os), transcript variant X1, misc_RNA [XR_104757]
A_55_P2031021	-0.97	-6.93	0,0042	Bex1	Mus musculus brain expressed gene 1 (Bex1), mRNA [NM_009052]
A_51_P481398	-0.97	-5.91	0,0074	Kif11	Mus musculus kinesin family member 11 (Kif11), mRNA [NM_010615]

A_55_P2073709	-0,97	-6,27	0,0061	Tfdp2	Mus musculus transcription factor Dp 2 (Tfdp2), transcript variant 1, mRNA [NM_178667]
A_51_P290626	-0,97	-4,61	0,0176	Gulo	Mus musculus gulonolactone (L-) oxidase (Gulo), mRNA [NM_178747]
A_51_P221651	-0,97	-5,44	0,0098	Adck3	Mus musculus aarF domain containing kinase 3 (Adck3), transcript variant 1, mRNA [NM_023341]
A_55_P2391065	-0,97	-4,17	0,0252	Cep128	Mus musculus centrosomal protein 128 (Cep128), mRNA [NM_181815]
A_51_P228171	-0,97	-5,15	0,0118	Cenpp	Mus musculus centromere protein P (Cenpp), mRNA [NM_025495]
A_55_P2025454	-0,97	-3,46	0,0494	Ttc12	Mus musculus tetratricopeptide repeat domain 12 (Ttc12), mRNA [NM_172770]
A_51_P269257	-0,97	-4,51	0,0192	4930579G18 Rik	Mus musculus RIKEN cDNA 4930579G18 gene (4930579G18Rik), long non-coding RNA [NR_038053]
A_51_P230098	-0,97	-5,95	0,0072	Pbk	Mus musculus PDZ binding kinase (Pbk), mRNA [NM_023209]
A_51_P132978	-0,97	-3,61	0,0428	Idh1	Mus musculus isocitrate dehydrogenase 1 (NADP+), soluble (Idh1), transcript variant 2, mRNA [NM_010497]
A_52_P218955	-0,97	-4,46	0,0198	D3Ert751e	Mus musculus DNA segment, Chr 3, ERATO Doi 751, expressed (D3Ert751e), transcript variant 1, mRNA [NM_028667]
A_52_P421713	-0,97	-5,62	0,0088	9930012K11 Rik	Mus musculus RIKEN cDNA 9930012K11 gene (9930012K11Rik), transcript variant 1, mRNA [NM_001004155]
A_52_P620748	-0,97	-6,80	0,0045	Ncl	Mus musculus nucleolin (Ncl), mRNA [NM_010880]
A_55_P2084652	-0,97	-7,39	0,0031	Hist1h2ak	Mus musculus histone cluster 1, H2ak (Hist1h2ak), mRNA [NM_178183]
A_66_P101407	-0,98	-4,16	0,0254	Acat3	Mus musculus acetyl-Coenzyme A acetyltransferase 3 (Acat3), mRNA [NM_153151]
A_55_P1954276	-0,98	-4,55	0,0186	Emid1	Mus musculus EMI domain containing 1 (Emid1), mRNA [NM_080595]
A_52_P649724	-0,98	-3,50	0,0475	Smyd3	Mus musculus SET and MYND domain containing 3 (Smyd3), mRNA [NM_027188]
A_51_P425847	-0,98	-4,85	0,0147	Ulbp1	Mus musculus 13 days embryo heart cDNA, RIKEN full-length enriched library, clone:D330035A03 product:hypothetical Major histocompatibility complex protein, Class I containing protein, full insert sequence. [AK084712]
A_51_P272106	-0,98	-4,31	0,0225	Cirbp	Mus musculus cold inducible RNA binding protein (Cirbp), mRNA [NM_007705]
A_55_P2083604	-0,98	-3,99	0,0298	Ranbp6	Mus musculus RAN binding protein 6 (Ranbp6), mRNA [NM_177721]
A_52_P498208	-0,98	-6,48	0,0054	Hist1h2ak	Mus musculus histone cluster 1, H2ak (Hist1h2ak), mRNA [NM_178183]
A_52_P654618	-0,98	-4,52	0,0191	Znhit3	Mus musculus zinc finger, HIT type 3 (Znhit3), mRNA [NM_001005223]
A_55_P1959595	-0,98	-5,90	0,0074	Fmo5	Mus musculus flavin containing monooxygenase 5 (Fmo5), transcript variant 1, mRNA [NM_001161765]
A_52_P352525	-0,98	-3,81	0,0355	Qser1	Mus musculus glutamine and serine rich 1 (Qser1), mRNA [NM_001123327]
A_51_P317317	-0,98	-6,38	0,0057	Pddc1	Mus musculus Parkinson disease 7 domain containing 1 (Pddc1), mRNA [NM_172116]
A_66_P133404	-0,98	-4,72	0,0161	2810417H13 Rik	Mus musculus RIKEN cDNA 2810417H13 gene (2810417H13Rik), mRNA [NM_026515]
A_52_P101238	-0,99	-5,30	0,0106	B230354K17 Rik	Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030020016 product:hypothetical protein, full insert sequence. [AK083460]
A_51_P122649	-0,99	-4,95	0,0138	Degs2	Mus musculus degenerative spermatocyte homolog 2 (Drosophila), lipid desaturase (Degs2), transcript variant 1, mRNA [NM_027299]
A_55_P1996893	-0,99	-5,58	0,0090	Zpbp2	Mus musculus zona pellucida binding protein 2 (Zpbp2), transcript variant 3, mRNA [NM_001166494]
A_52_P72839	-0,99	-5,63	0,0088	Sec23a	Mus musculus SEC23A (S. cerevisiae) (Sec23a), mRNA [NM_009147]
A_51_P237512	-0,99	-3,51	0,0473	Ska2	Mus musculus spindle and kinetochore associated complex subunit 2 (Ska2), mRNA [NM_025377]
A_55_P2084666	-0,99	-7,96	0,0022	Hist1h2af	Mus musculus histone cluster 1, H2af (Hist1h2af), mRNA [NM_175661]
A_52_P633714	-0,99	-4,01	0,0293	Troap	Mus musculus trophinin associated protein (Troap), transcript variant 1, mRNA [NM_030159]
A_55_P1987131	-0,99	-3,65	0,0411	Lsm14b	Mus musculus LSM14 homolog B (SCD6, S. cerevisiae) (Lsm14b), mRNA [NM_177727]
A_51_P438083	-0,99	-3,92	0,0321	Slc6a13	Mus musculus solute carrier family 6 (neurotransmitter transporter, GABA), member 13 (Slc6a13), mRNA [NM_144512]
A_51_P391495	-0,99	-3,64	0,0416	Pola2	Mus musculus polymerase (DNA directed), alpha 2 (Pola2), transcript variant 1, mRNA [NM_008893]
A_52_P633300	-0,99	-3,71	0,0388	Morc1	Mus musculus microorchidia 1 (Morc1), mRNA [NM_010816]
A_52_P85892	-0,99	-4,30	0,0229	Cant1	Mus musculus calcium activated nucleotidase 1 (Cant1), transcript variant 1, mRNA [NM_029502]
A_55_P2136258	-0,99	-5,37	0,0102	Nsun6	Mus musculus NOL1/NOP2/Sun domain family member 6 (Nsun6), transcript variant 1, mRNA [NM_001165941]
A_66_P107536	-0,99	-3,84	0,0345	Gm9958	Mus musculus predicted gene 9958 (Gm9958), long non-coding RNA [NR_045618]
A_52_P420500	-0,99	-5,40	0,0100	Cry1	Mus musculus cryptochrome 1 (photolyase-like) (Cry1), mRNA [NM_007771]
A_55_P2084631	-0,99	-6,84	0,0044	Hist1h2an	Mus musculus histone cluster 1, H2an (Hist1h2an), mRNA [NM_178184]
A_52_P245365	-0,99	-4,11	0,0267	Rtf1	Mus musculus Rtf1, Paf1/RNA polymerase II complex component, homolog (S. cerevisiae) (Rtf1), mRNA [NM_030112]
A_55_P2054435	-1,00	-3,81	0,0356	Ttpal	Mus musculus tocopherol (alpha) transfer protein-like (Ttpal), transcript variant 1, mRNA [NM_029512]
A_55_P1991104	-1,00	-4,17	0,0253	Gm10910	Mus musculus adult male olfactory brain cDNA, RIKEN full-length enriched library, clone:6430701101 product:hypothetical protein, full insert sequence. [AK135122]
A_55_P1953894	-1,00	-5,68	0,0085	Mccc2	Mus musculus methylcrotonoyl-Coenzyme A carboxylase 2 (beta) (Mccc2), mRNA [NM_030026]



A_55_P2050439	-1,00	-5,86	0,0076	Dlgap5	Mus musculus discs, large (Drosophila) homolog-associated protein 5 (Dlgap5), mRNA [NM_144553]
A_52_P526396	-1,00	-4,86	0,0146	Atl1	Mus musculus atlastin GTPase 1 (Atl1), mRNA [NM_178628]
A_55_P2037439	-1,00	-4,43	0,0202	Depdc1a	Mus musculus DEP domain containing 1a (Depdc1a), transcript variant 1, mRNA [NM_001172092]
A_52_P490207	-1,00	-9,39	0,0009	Ermard	Mus musculus ER membrane associated RNA degradation (Ermard), transcript variant 1, mRNA [NM_001039552]
A_52_P480088	-1,00	-4,64	0,0171	Col27a1	Mus musculus collagen, type XXVII, alpha 1 (Col27a1), mRNA [NM_025685]
A_52_P332487	-1,00	-4,11	0,0268	Ptpn7	Mus musculus protein tyrosine phosphatase, non-receptor type 7 (Ptpn7), mRNA [NM_177081]
A_55_P2099961	-1,01	-7,57	0,0028	Hist1h2ag	Mus musculus histone cluster 1, H2ag (Hist1h2ag), mRNA [NM_178186]
A_51_P518051	-1,01	-5,09	0,0123	Dusp4	Mus musculus dual specificity phosphatase 4 (Dusp4), mRNA [NM_176933]
A_55_P2209762	-1,01	-5,12	0,0121	Klhl11	PREDICTED: Mus musculus kelch-like 11 (Klhl11), transcript variant X1, misc_RNA [XR_388414]
A_52_P593015	-1,01	-6,42	0,0056	Pibf1	Mus musculus progesterone immunomodulatory binding factor 1 (Pibf1), mRNA [NM_029320]
A_55_P2003976	-1,01	-4,01	0,0292	Gm4980	Mus musculus predicted gene 4980 (Gm4980), mRNA [NM_001195529]
A_51_P409010	-1,01	-3,77	0,0368	Comp	Mus musculus cartilage oligomeric matrix protein (Comp), mRNA [NM_016685]
A_55_P2107070	-1,02	-3,76	0,0372	Cabyr	Mus musculus calcium-binding tyrosine-(Y)-phosphorylation regulated (fibrousheathin 2) (Cabyr), transcript variant 1, mRNA [NM_027687]
A_52_P552550	-1,02	-7,77	0,0024	Agtrap	Mus musculus angiotensin II, type I receptor-associated protein (Agtrap), mRNA [NM_009642]
A_55_P2065364	-1,02	-5,51	0,0093	Tdrkh	Mus musculus tudor and KH domain containing protein (Tdrkh), mRNA [NM_028307]
A_52_P529570	-1,02	-4,81	0,0151	Nsl1	Mus musculus NSL1, MIND kinetochore complex component, homolog (S. cerevisiae) (Nsl1), mRNA [NM_198654]
A_51_P399853	-1,02	-6,27	0,0061	Zfp704	Mus musculus zinc finger protein 704 (Zfp704), mRNA [NM_133218]
A_52_P173860	-1,02	-5,07	0,0125	Cep104	Mus musculus centrosomal protein 104 (Cep104), mRNA [NM_177673]
A_55_P2012051	-1,02	-5,54	0,0092	Sox1	Mus musculus SRY (sex determining region Y)-box 1 (Sox1), mRNA [NM_009233]
A_55_P2070576	-1,02	-4,77	0,0156	Ccl27a	Mus musculus chemokine (C-C motif) ligand 27A (Ccl27a), transcript variant 1, mRNA [NM_001048179]
A_51_P332355	-1,02	-5,53	0,0092	Kif18a	Mus musculus kinesin family member 18A (Kif18a), mRNA [NM_139303]
A_52_P668285	-1,02	-4,64	0,0171	Plk4	Mus musculus polo-like kinase 4 (Plk4), transcript variant 1, mRNA [NM_011495]
A_52_P195798	-1,03	-4,09	0,0272	Atp5s	Mus musculus ATP synthase, H+ transporting, mitochondrial F0 complex, subunit S (Atp5s), mRNA [NM_026536]
A_52_P292632	-1,04	-4,34	0,0219	Wdr20rt	Mus musculus WD repeat domain 20, retrogene (Wdr20rt), mRNA [NM_027614]
A_51_P508029	-1,04	-4,38	0,0212	Pcyox1	Mus musculus prenylcysteine oxidase 1 (Pcyox1), mRNA [NM_025823]
A_52_P550173	-1,04	-3,76	0,0373	Slamf1	Mus musculus signaling lymphocytic activation molecule family member 1 (Slamf1), mRNA [NM_013730]
A_51_P322123	-1,04	-5,13	0,0120	Rab10os	Mus musculus RAB10, member RAS oncogene family, opposite strand (Rab10os), long non-coding RNA [NR_015551]
A_52_P459276	-1,04	-5,56	0,0091	Irf81	Mus musculus intracellular transport 81 (Irf81), mRNA [NM_009879]
A_52_P227391	-1,04	-5,00	0,0132	Kif15	Mus musculus kinesin family member 15 (Kif15), mRNA [NM_010620]
A_52_P372165	-1,04	-5,12	0,0120	Rpsa	Mus musculus ribosomal protein SA (Rpsa), mRNA [NM_011029]
A_55_P2034535	-1,05	-4,66	0,0169	Chchd5	Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 5 (Chchd5), mRNA [NM_025395]
A_65_P10450	-1,05	-7,08	0,0038	Tmpo	Mus musculus thymopoietin (Tmpo), transcript variant 1, mRNA [NM_011605]
A_66_P133025	-1,05	-9,47	0,0009	Diablo	Mus musculus diablo homolog (Drosophila) (Diablo), mRNA [NM_023232]
A_52_P607683	-1,05	-5,63	0,0088	Ppm1e	Mus musculus protein phosphatase 1E (PP2C domain containing) (Ppm1e), mRNA [NM_177167]
A_52_P513347	-1,05	-6,42	0,0056	Phkb	Mus musculus phosphorylase kinase beta (Phkb), mRNA [NM_199446]
A_52_P424985	-1,05	-3,51	0,0473	Xrra1	Mus musculus X-ray radiation resistance associated 1 (Xrra1), mRNA [NM_001164258]
A_65_P14325	-1,06	-8,00	0,0021	Atl2	Mus musculus atlastin GTPase 2 (Atl2), transcript variant 3, mRNA [NM_001286647]
A_55_P2077783	-1,06	-6,47	0,0055	Tubb2a-ps2	Mus musculus tubulin, beta 2a, pseudogene 2 (Tubb2a-ps2), non-coding RNA [NR_003964]
A_52_P536494	-1,06	-9,41	0,0009	Mycn	Mus musculus v-myc myelocytomatosis viral related oncogene, neuroblastoma derived (avian) (Mycn), mRNA [NM_008709]
A_55_P2059382	-1,06	-5,62	0,0088	Arl6	Mus musculus ADP-ribosylation factor-like 6 (Arl6), mRNA [NM_019665]
A_51_P216605	-1,06	-4,48	0,0195	Hbp1	Mus musculus high mobility group box transcription factor 1 (Hbp1), transcript variant 2, mRNA [NM_177993]
A_52_P129697	-1,06	-3,48	0,0485	Stradb	Mus musculus STE20-related kinase adaptor beta (Stradb), mRNA [NM_172656]
A_55_P2085994	-1,06	-7,21	0,0035	Zfat	Mus musculus zinc finger and AT hook domain containing (Zfat), transcript variant 1, mRNA [NM_001145888]
A_55_P1998354	-1,06	-7,26	0,0033	Wbp4	Mus musculus WW domain binding protein 4 (Wbp4), mRNA [NM_018765]
A_55_P2161695	-1,06	-4,74	0,0159	Kdelc1	Mus musculus KDEL (Lys-Asp-Glu-Leu) containing 1 (Kdelc1), mRNA [NM_023645]
A_55_P1962851	-1,06	-4,82	0,0150	Gpr179	Mus musculus G protein-coupled receptor 179 (Gpr179), mRNA [NM_001081220]
A_52_P399584	-1,07	-6,80	0,0045	Ckap2l	Mus musculus cytoskeleton associated protein 2-like (Ckap2l), mRNA [NM_181589]

A_55_P1993180	-1,07	-4,79	0,0155	Speer4c	Mus musculus spermatogenesis associated glutamate (E)-rich protein 4c (Speer4c), mRNA [NM_001281511]
A_55_P1972792	-1,07	-7,51	0,0029	Stil	Mus musculus Scf/Tal1 interrupting locus (Stil), mRNA [NM_009185]
A_52_P174661	-1,07	-5,13	0,0120	Gatc	Mus musculus glutamyl-tRNA(Gln) amidotransferase, subunit C homolog (bacterial) (Gatc), mRNA [NM_029645]
A_55_P2255325	-1,07	-4,92	0,0140	Insl5	Mus musculus insulin-like 5 (Insl5), transcript variant 2, mRNA [NM_011831]
A_52_P506871	-1,07	-6,04	0,0069	Btbd7	Mus musculus BTB (POZ) domain containing 7 (Btbd7), mRNA [NM_172806]
A_55_P2180769	-1,07	-3,98	0,0300	Gls	Mus musculus glutaminase (Gls), transcript variant 1, mRNA [NM_001081081]
A_52_P476189	-1,07	-3,75	0,0376	Gm3604	Mus musculus predicted gene 3604 (Gm3604), mRNA [NM_001162910]
A_52_P190647	-1,07	-9,47	0,0009	Mxd3	Mus musculus Max dimerization protein 3 (Mxd3), mRNA [NM_016662]
A_51_P514256	-1,07	-4,25	0,0237	Tubb2b	Mus musculus tubulin, beta 2B class IIB (Tubb2b), mRNA [NM_023716]
A_51_P270949	-1,08	-5,02	0,0130	Hist1h1b	Mus musculus histone cluster 1, H1b (Hist1h1b), mRNA [NM_020034]
A_55_P2012729	-1,08	-7,14	0,0036	Kcnh2	Mus musculus potassium voltage-gated channel, subfamily H (eag-related), member 2 (Kcnh2), mRNA [NM_013569]
A_55_P2087205	-1,08	-5,65	0,0087	9530077C14 Rik	Mus musculus adult male urinary bladder cDNA, RIKEN full-length enriched library, clone:9530077C14 product:unclassifiable, full insert sequence. [AK020648]
A_51_P302139	-1,08	-5,67	0,0086	Mastl	Mus musculus microtubule associated serine/threonine kinase-like (Mastl), mRNA [NM_025979]
A_52_P441044	-1,08	-6,31	0,0060	Rfxap	Mus musculus regulatory factor X-associated protein (Rfxap), mRNA [NM_133231]
A_66_P118329	-1,09	-4,16	0,0255	Ntrk3	Mus musculus neurotrophic tyrosine kinase, receptor, type 3 (Ntrk3), transcript variant 1, mRNA [NM_008746]
A_51_P501018	-1,09	-6,37	0,0057	Nek2	Mus musculus NIMA (never in mitosis gene a)-related expressed kinase 2 (Nek2), mRNA [NM_010892]
A_55_P2073169	-1,09	-3,80	0,0359	Padi4	Mus musculus peptidyl arginine deiminase, type IV (Padi4), mRNA [NM_011061]
A_55_P2228097	-1,09	-3,75	0,0376	Gabrg3	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 3 [Source:MGI Symbol;Acc:MGI:95624] [ENSMUST00000068911]
A_52_P257625	-1,09	-6,17	0,0064	Esm1	Mus musculus endothelial cell-specific molecule 1 (Esm1), mRNA [NM_023612]
A_51_P264634	-1,09	-3,65	0,0410	Strbp	Mus musculus spermatid perinuclear RNA binding protein (Strbp), mRNA [NM_009261]
A_55_P2249942	-1,09	-5,00	0,0132	6330531101 Rik	Mus musculus adult male medulla oblongata cDNA, RIKEN full-length enriched library, clone:6330531101 product:unclassifiable, full insert sequence. [AK018224]
A_55_P2008891	-1,09	-4,37	0,0213	Tmsb15b1	Mus musculus thymosin beta 15b1 (Tmsb15b1), mRNA [NM_001081983]
A_51_P494822	-1,09	-3,65	0,0412	Stag3	Mus musculus stromal antigen 3 (Stag3), mRNA [NM_016964]
A_52_P311148	-1,09	-3,48	0,0484	Trappc13	Mus musculus trafficking protein particle complex 13 (Trappc13), transcript variant 4, non-coding RNA [NR_003546]
A_51_P420415	-1,09	-4,04	0,0285	Srd5a1	Mus musculus steroid 5 alpha-reductase 1 (Srd5a1), mRNA [NM_175283]
A_52_P46039	-1,10	-4,26	0,0236	Kctd18	Mus musculus potassium channel tetramerisation domain containing 18 (Kctd18), transcript variant 1, mRNA [NM_001159864]
A_55_P2034864	-1,10	-3,88	0,0330	Tubb2b	Mus musculus tubulin, beta 2B class IIB (Tubb2b), mRNA [NM_023716]
A_55_P2423518	-1,10	-3,81	0,0354	B230369F24 Rik	Mus musculus adult pancreas islet cells cDNA, RIKEN full-length enriched library, clone:C820011M03 product:unclassifiable, full insert sequence. [AK050536]
A_51_P273705	-1,10	-6,72	0,0047	Zfp354c	Mus musculus zinc finger protein 354C (Zfp354c), mRNA [NM_013922]
A_55_P2163812	-1,10	-4,88	0,0145	38231	Mus musculus septin 4 (Sept4), transcript variant 3, mRNA [NM_001284394]
A_51_P252565	-1,10	-4,00	0,0296	Alox15	Mus musculus arachidonate 15-lipoxygenase (Alox15), mRNA [NM_009660]
A_55_P2159114	-1,11	-3,68	0,0399	Olfir284	Mus musculus olfactory receptor 284 (Olfir284), mRNA [NM_146281]
A_55_P2063661	-1,11	-3,57	0,0443	Tmem168	Mus musculus transmembrane protein 168 (Tmem168), mRNA [NM_028990]
A_51_P201468	-1,11	-7,25	0,0033	Nrf1	Mus musculus nuclear respiratory factor 1 (Nrf1), transcript variant 6, mRNA [NM_010938]
A_55_P2137688	-1,11	-3,98	0,0302	Cga	Mus musculus glycoprotein hormones, alpha subunit (Cga), mRNA [NM_009889]
A_55_P2126790	-1,11	-4,13	0,0262	1500009L16 Rik	Mus musculus RIKEN cDNA 1500009L16 gene (1500009L16Rik), mRNA [NM_001145198]
A_55_P1978052	-1,12	-4,12	0,0265	Pet112	Mus musculus PET112 homolog (S. cerevisiae) (Pet112), mRNA [NM_144896]
A_55_P2097603	-1,12	-3,63	0,0421	Rabif	Mus musculus 1 month neonate cerebellum cDNA, RIKEN full-length enriched library, clone:G630077013 product:Guanine nucleotide exchange factor MSS4 (Rab interacting factor) homolog [Mus musculus], full insert sequence. [AK165795]
A_52_P442852	-1,12	-3,62	0,0422	Kbtbd7	Mus musculus kelch repeat and BTB (POZ) domain containing 7 (Kbtbd7), mRNA [NM_001024135]
A_55_P1989738	-1,12	-5,67	0,0086	4930426L09 Rik	Mus musculus RIKEN cDNA 4930426L09 gene (4930426L09Rik), long non-coding RNA [NR_024323]
A_51_P167527	-1,12	-3,63	0,0417	Lum	Mus musculus lumican (Lum), mRNA [NM_008524]
A_51_P217282	-1,12	-4,02	0,0291	Lemd3	Mus musculus LEM domain containing 3 (Lemd3), mRNA [NM_001081193]
A_51_P101765	-1,12	-7,27	0,0033	Smarcd1	Mus musculus SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1 (Smarcd1), mRNA [NM_031842]
A_51_P237055	-1,12	-4,47	0,0198	Olfir1198	Mus musculus olfactory receptor 1198 (Olfir1198), mRNA [NM_207567]

A_52_P368262	-1,12	-9,56	0,0009	Bcl7c	Mus musculus adult male hypothalamus cDNA, RIKEN full-length enriched library, clone:A230063C04 product:inferred: Similar to B-cell CLL/lymphoma 7C (Mus musculus), full insert sequence. [AK038789]
A_66_P102607	-1,13	-7,92	0,0022	Btrc	Mus musculus beta-transducin repeat containing protein (Btrc), transcript variant 1, mRNA [NM_001037758]
A_52_P672740	-1,13	-7,38	0,0031	Rala	Mus musculus v-ral simian leukemia viral oncogene homolog A (ras related) (Rala), mRNA [NM_019491]
A_51_P445912	-1,13	-4,92	0,0140	2310047K21 Rik	Mus musculus adult male tongue cDNA, RIKEN full-length enriched library, clone:2310047K21 product:unclassifiable, full insert sequence. [AK009882]
A_66_P136186	-1,13	-8,97	0,0011	Wee1	Mus musculus WEE 1 homolog 1 (S. pombe) (Wee1), mRNA [NM_009516]
A_55_P2158921	-1,13	-3,56	0,0447	Htr2c	Mus musculus 5-hydroxytryptamine (serotonin) receptor 2C (Htr2c), mRNA [NM_008312]
A_52_P618132	-1,13	-4,56	0,0184	Manea	Mus musculus mannosidase, endo-alpha (Manea), mRNA [NM_172865]
A_52_P257686	-1,14	-7,12	0,0037	Rwdd3	Mus musculus RWD domain containing 3 (Rwdd3), transcript variant 2, mRNA [NM_028456]
A_52_P322421	-1,14	-4,48	0,0196	Mpzl2	Mus musculus myelin protein zero-like 2 (Mpzl2), mRNA [NM_007962]
A_55_P2162935	-1,14	-10,20	0,0006	Ntn1	Mus musculus netrin 1 (Ntn1), mRNA [NM_008744]
A_55_P2055369	-1,14	-3,81	0,0354	Etfb	Mus musculus electron transferring flavoprotein, beta polypeptide (Etfb), transcript variant 1, mRNA [NM_026695]
A_52_P215418	-1,14	-4,38	0,0212	Armc9	Mus musculus armadillo repeat containing 9 (Armc9), transcript variant 2, mRNA [NM_027456]
A_66_P128445	-1,15	-4,20	0,0246	Bend7	BEN domain containing 7 [Source:MGI Symbol;Acc:MGI:2443100] [ENSMUST00000115022]
A_52_P152219	-1,15	-6,14	0,0065	Rpgrip1l	Mus musculus Rpgrip1-like (Rpgrip1l), mRNA [NM_173431]
A_51_P323531	-1,15	-4,59	0,0178	Fam71e1	Mus musculus family with sequence similarity 71, member E1 (Fam71e1), mRNA [NM_028169]
A_55_P2051791	-1,15	-3,80	0,0359	Cbr4	Mus musculus carbonyl reductase 4 (Cbr4), mRNA [NM_145595]
A_55_P2005859	-1,15	-4,47	0,0197	Fn3k	Mus musculus fructosamine 3 kinase (Fn3k), transcript variant 1, mRNA [NM_022014]
A_51_P422369	-1,15	-5,26	0,0109	Odf3b	Mus musculus outer dense fiber of sperm tails 3B (Odf3b), mRNA [NM_001013022]
A_55_P2007500	-1,15	-4,85	0,0147	Tmem151b	Mus musculus transmembrane protein 151B (Tmem151b), mRNA [NM_001013749]
A_55_P2068733	-1,16	-6,73	0,0047	Gm20878	Mus musculus predicted gene, 20878 (Gm20878), mRNA [NM_001270431]
A_55_P2003576	-1,16	-4,36	0,0215	Tpx2	Mus musculus TPX2, microtubule-associated protein homolog (Xenopus laevis) (Tpx2), transcript variant 1, mRNA [NM_001141977]
A_51_P152612	-1,16	-4,03	0,0288	Nol7	Mus musculus nucleolar protein 7 (Nol7), mRNA [NM_023554]
A_51_P237865	-1,16	-3,81	0,0356	Il4	Mus musculus interleukin 4 (Il4), transcript variant 1, mRNA [NM_021283]
A_66_P115034	-1,16	-9,08	0,0011	Bend5	Mus musculus BEN domain containing 5 (Bend5), transcript variant 1, mRNA [NM_026279]
A_55_P2144691	-1,16	-4,65	0,0170	Gm128	predicted gene 128 [Source:MGI Symbol;Acc:MGI:2684974] [ENSMUST00000107197]
A_55_P2079009	-1,16	-3,65	0,0412	Slco2b1	Mus musculus solute carrier organic anion transporter family, member 2b1 (Slco2b1), transcript variant 1, mRNA [NM_001252530]
A_55_P1973447	-1,17	-5,41	0,0100	Ybx2	Y box protein 2 [Source:MGI Symbol;Acc:MGI:1096372] [ENSMUST00000018698]
A_55_P1962509	-1,17	-6,33	0,0059	a	Mus musculus nonagouti (a), mRNA [NM_015770]
A_55_P2011610	-1,17	-4,08	0,0274	Lyst	Mus musculus lysosomal trafficking regulator (Lyst), mRNA [NM_010748]
A_66_P112436	-1,17	-4,53	0,0189	Prkar2b	Mus musculus protein kinase, cAMP dependent regulatory, type II beta (Prkar2b), mRNA [NM_011158]
A_55_P1967622	-1,17	-5,78	0,0081	Sf3b3	Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A43011016 product:SIMILAR TO SPLICING FACTOR 3B, SUBUNIT 3, 130KD, full insert sequence. [AK040625]
A_52_P221804	-1,18	-5,01	0,0131	Trim23	Mus musculus tripartite motif-containing 23 (Trim23), mRNA [NM_030731]
A_55_P2067727	-1,18	-4,05	0,0281	Mxra7	Mus musculus matrix-remodelling associated 7 (Mxra7), mRNA [NM_026280]
A_55_P2138386	-1,19	-5,79	0,0080	Il5	Mus musculus interleukin 5 (Il5), mRNA [NM_010558]
A_55_P1972054	-1,19	-7,52	0,0029	Capn10	calpain 10 [Source:MGI Symbol;Acc:MGI:1344392] [ENSMUST00000117814]
A_51_P162116	-1,19	-6,14	0,0065	Mblac1	Mus musculus metallo-beta-lactamase domain containing 1 (Mblac1), mRNA [NM_177878]
A_51_P366227	-1,19	-5,46	0,0097	Zfp799	Mus musculus zinc finger protein 799 (Zfp799), mRNA [NM_177359]
A_52_P70787	-1,19	-4,65	0,0170	Brdt	Mus musculus bromodomain, testis-specific (Brdt), transcript variant 1, mRNA [NM_054054]
A_51_P385718	-1,20	-4,48	0,0195	Cd177	Mus musculus CD177 antigen (Cd177), mRNA [NM_026862]
A_51_P354652	-1,20	-11,57	0,0003	Slc25a30	Mus musculus solute carrier family 25, member 30 (Slc25a30), mRNA [NM_026232]
A_55_P2165286	-1,20	-5,58	0,0090	Gmfg	Mus musculus glia maturation factor, gamma (Gmfg), transcript variant 1, mRNA [NM_022024]
A_52_P590396	-1,20	-6,89	0,0043	Sort1	Mus musculus sortilin 1 (Sort1), transcript variant 2, mRNA [NM_019972]
A_55_P2157859	-1,20	-5,82	0,0078	Klra17	Mus musculus killer cell lectin-like receptor, subfamily A, member 17 (Klra17), mRNA [NM_133203]
A_55_P2008996	-1,21	-4,80	0,0153	Gm10034	Mus musculus 9 days embryo whole body cDNA, RIKEN full-length enriched library, clone:D030041C22 product:hypothetical protein, full insert sequence. [AK164250]

A_51_P299062	-1,22	-4,41	0,0206	Kel	Mus musculus Kell blood group (Kel), mRNA [NM_032540]
A_52_P834112	-1,22	-3,69	0,0395	3021401N23 Rik	Mus musculus 12 days embryo head cDNA, RIKEN full-length enriched library, clone:3021401N23 product:unclassifiable, full insert sequence. [AK013908]
A_55_P2054882	-1,22	-4,06	0,0279	Trappc1	trafficking protein particle complex 1 [Source:MGI Symbol;Acc:MGI:1098727] [ENSMUST0000060956]
A_55_P2167339	-1,23	-5,15	0,0118	Cnot3	Mus musculus CCR4-NOT transcription complex, subunit 3 (Cnot3), mRNA [NM_146176]
A_55_P2182740	-1,24	-7,23	0,0034	2310047D07 Rik	PREDICTED: Mus musculus RIKEN cDNA 2310047D07 gene (2310047D07Rik), transcript variant X1, misc_RNA [XR_104959]
A_55_P2058591	-1,24	-3,77	0,0370	Mylpf	PREDICTED: Mus musculus myosin light chain, phosphorylatable, fast skeletal muscle (Mylpf), transcript variant X1, mRNA [XM_006507421]
A_55_P1991874	-1,24	-3,65	0,0412	Dcpp3	Mus musculus demilune cell and parotid protein 3 (Dcpp3), mRNA [NM_001077633]
A_51_P377528	-1,24	-3,86	0,0338	Oprk1	Mus musculus opioid receptor, kappa 1 (Oprk1), transcript variant 2, mRNA [NM_011011]
A_52_P139819	-1,24	-5,02	0,0130	Zc3h6	Mus musculus zinc finger CCCH type containing 6 (Zc3h6), mRNA [NM_178404]
A_55_P2335713	-1,25	-4,73	0,0160	D11ErtD712e	AU018461 Mouse eight-cell stage embryo cDNA Mus musculus cDNA clone J0503H03 3'. [AU018461]
A_55_P2038514	-1,25	-3,77	0,0370	Gm15411	PREDICTED: Mus musculus predicted gene 15411 (Gm15411), transcript variant X9, misc_RNA [XR_377244]
A_55_P2076550	-1,25	-4,18	0,0252	Mpz13	Mus musculus myelin protein zero-like 3 (Mpz13), mRNA [NM_001093749]
A_55_P2065899	-1,26	-3,46	0,0496	Sebox	Mus musculus SEBOX homeobox (Sebox), mRNA [NM_008759]
A_55_P2042600	-1,26	-4,86	0,0146	LOC102641028	PREDICTED: Mus musculus uncharacterized LOC102641028 (LOC102641028), mRNA [XM_006523195]
A_55_P2142326	-1,26	-3,75	0,0377	Zkscan7	Mus musculus zinc finger protein 167, mRNA (cDNA clone IMAGE:3994925), with apparent retained intron. [BC042569]
A_51_P212741	-1,26	-4,90	0,0142	Scn2b	Mus musculus sodium channel, voltage-gated, type II, beta (Scn2b), mRNA [NM_001014761]
A_51_P356931	-1,27	-6,21	0,0063	Orc1	Mus musculus origin recognition complex, subunit 1 (Orc1), mRNA [NM_011015]
A_66_P115187	-1,27	-4,83	0,0149	Spag8	Mus musculus sperm associated antigen 8 (Spag8), transcript variant 2, mRNA [NM_001007463]
A_55_P2051766	-1,27	-3,52	0,0467	Cbx1	Mus musculus chromobox 1 (Cbx1), mRNA [NM_007622]
A_55_P2142404	-1,28	-3,64	0,0413	Zfp420	Mus musculus zinc finger protein 420 (Zfp420), mRNA [NM_172740]
A_52_P244496	-1,29	-3,78	0,0367	U2surp	Mus musculus U2 snRNP-associated SURP domain containing (U2surp), transcript variant 1, mRNA [NM_001114977]
A_55_P2225178	-1,29	-3,85	0,0341	9530036M11 Rik	PREDICTED: Mus musculus RIKEN cDNA 9530036M11 gene (9530036M11Rik), transcript variant X3, misc_RNA [XR_377697]
A_52_P508221	-1,29	-4,77	0,0156	Rmi2	Mus musculus RMI2, RecQ mediated genome instability 2, homolog (S. cerevisiae) (Rmi2), mRNA [NM_001162932]
A_55_P2016937	-1,29	-3,54	0,0458	Arpp21	Mus musculus cyclic AMP-regulated phosphoprotein, 21 (Arpp21), transcript variant 6, mRNA [NM_001177619]
A_55_P2109421	-1,29	-3,49	0,0480	Gm8505	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130003F07 product:hypothetical protein, full insert sequence. [AK037283]
A_51_P128463	-1,30	-4,75	0,0157	Grrp1	Mus musculus glycine/arginine rich protein 1 (Grrp1), mRNA [NM_001099296]
A_51_P425737	-1,30	-9,22	0,0010	Tbc1d7	Mus musculus TBC1 domain family, member 7 (Tbc1d7), transcript variant 2, mRNA [NM_025935]
A_55_P2363442	-1,30	-5,52	0,0093	Zfp867	Mus musculus zinc finger protein 867 (Zfp867), mRNA [NM_178417]
A_51_P363729	-1,30	-3,69	0,0395	Prg3	Mus musculus proteoglycan 3 (Prg3), mRNA [NM_016914]
A_55_P2062015	-1,30	-5,97	0,0072	Acyp1	Mus musculus acylphosphatase 1, erythrocyte (common) type (Acyp1), mRNA [NM_025421]
A_55_P2177426	-1,31	-7,42	0,0031	Abcb8	Mus musculus ATP-binding cassette, sub-family B (MDR/TAP), member 8 (Abcb8), mRNA [NM_029020]
A_51_P135037	-1,31	-4,30	0,0227	Preb	Mus musculus prolactin regulatory element binding (Preb), mRNA [NM_016703]
A_51_P490023	-1,31	-10,11	0,0006	Tubb2a	Mus musculus tubulin, beta 2A class IIA (Tubb2a), mRNA [NM_009450]
A_55_P2117515	-1,32	-3,68	0,0399	Dnajc14	Mus musculus DnaJ (Hsp40) homolog, subfamily C, member 14 (Dnajc14), mRNA [NM_028873]
A_55_P1988613	-1,32	-4,29	0,0229	Mdm1	Mus musculus transformed mouse 3T3 cell double minute 1 (Mdm1), transcript variant 3, mRNA [NM_001162904]
A_55_P2019407	-1,32	-4,43	0,0203	Bhlhb9	Mus musculus basic helix-loop-helix domain containing, class B9 (Bhlhb9), transcript variant 1, mRNA [NM_198161]
A_55_P1985224	-1,32	-3,95	0,0311	Olfir1234	Mus musculus olfactory receptor 1234 (Olfir1234), mRNA [NM_146973]
A_52_P253044	-1,32	-8,59	0,0015	Syt13	Mus musculus synaptotagmin XIII (Syt13), mRNA [NM_030725]
A_55_P1998816	-1,33	-4,51	0,0191	Zfand5	Mus musculus adult male corpora quadrigemina cDNA, RIKEN full-length enriched library, clone:B230385N05 product:unclassifiable, full insert sequence. [AK046445]
A_55_P1968824	-1,33	-4,20	0,0248	Rpgr	Mus musculus retinitis pigmentosa GTPase regulator (Rpgr), transcript variant 2, mRNA [NM_001177951]
A_55_P2069974	-1,33	-6,74	0,0047	Kctd1	Mus musculus potassium channel tetramerisation domain containing 1 (Kctd1), transcript variant 1, mRNA [NM_001142731]
A_55_P2157829	-1,34	-5,64	0,0087	Ccl1	chemokine (C-C motif) ligand 1 [Source:MGI Symbol;Acc:MGI:98258] [ENSMUST00000021043]
A_55_P1958986	-1,35	-5,10	0,0122	Spata7	Mus musculus spermatogenesis associated 7 (Spata7), transcript variant 4, mRNA [NM_001289574]
A_55_P1972510	-1,36	-4,66	0,0169	Zfp944	Mus musculus zinc finger protein 944 (Zfp944), mRNA [NM_176962]
A_52_P444637	-1,36	-3,90	0,0324	Rcbtb2	Mus musculus regulator of chromosome condensation (RCC1) and BTB (POZ) domain containing protein 2 (Rcbtb2), transcript variant 2, mRNA [NM_134083]

A_51_P233727	-1,36	-5,09	0,0123	Sapcd1	Mus musculus suppressor APC domain containing 1 (Sapcd1), transcript variant 1, mRNA [NM_023893]
A_55_P2011146	-1,36	-4,77	0,0155	Reep1	Mus musculus receptor accessory protein 1 (Reep1), mRNA [NM_178608]
A_52_P628117	-1,37	-6,69	0,0048	Abcc5	Mus musculus ATP-binding cassette, sub-family C (CFTR/MRP), member 5 (Abcc5), transcript variant 2, mRNA [NM_176839]
A_55_P2135486	-1,37	-4,50	0,0193	Gm5907	PREDICTED: Mus musculus predicted gene 5907 (Gm5907), ncRNA [XR_378740]
A_51_P284442	-1,38	-7,09	0,0037	9530077C05 Rik	Mus musculus RIKEN cDNA 9530077C05 gene (9530077C05Rik), mRNA [NM_026739]
A_52_P408438	-1,38	-4,42	0,0205	Arpp19	Mus musculus cAMP-regulated phosphoprotein 19 (Arpp19), transcript variant 1, mRNA [NM_021548]
A_51_P104608	-1,38	-4,87	0,0146	Rnase6	Mus musculus ribonuclease, RNase A family, 6 (Rnase6), mRNA [NM_030098]
A_52_P96748	-1,38	-3,84	0,0346	Ttc30b	Mus musculus tetratricopeptide repeat domain 30B (Ttc30b), mRNA [NM_028235]
A_52_P304947	-1,39	-6,93	0,0042	Cenpn	Mus musculus centromere protein N (Cenpn), mRNA [NM_028131]
A_52_P278581	-1,39	-4,08	0,0275	Zbtb1	zinc finger and BTB domain containing 1 [Source:MGI Symbol;Acc:MGI:2442326] [ENSMUST00000042779]
A_55_P2052265	-1,39	-7,06	0,0038	Zscan30	PREDICTED: Mus musculus zinc finger and SCAN domain containing 30 (Zscan30), transcript variant X4, mRNA [XM_006526394]
A_55_P2151521	-1,40	-4,22	0,0242	Mfap3	microfibrillar-associated protein 3 [Source:MGI Symbol;Acc:MGI:1924068] [ENSMUST00000108848]
A_66_P103411	-1,41	-5,67	0,0086	Gm9888	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630077M18 product:hypothetical protein, full insert sequence. [AK042275]
A_55_P1983698	-1,42	-3,49	0,0481	Rgag1	Mus musculus retrotransposon gag domain containing 1 (Rgag1), mRNA [NM_001040434]
A_55_P1964108	-1,42	-7,98	0,0022	B230118H07 Rik	Mus musculus RIKEN cDNA B230118H07 gene (B230118H07Rik), mRNA [NM_026592]
A_52_P191633	-1,43	-5,29	0,0106	Fam71b	Mus musculus family with sequence similarity 71, member B (Fam71b), mRNA [NM_001013783]
A_65_P10029	-1,43	-4,01	0,0293	Prdm2	Mus musculus PR domain containing 2, with ZNF domain (Prdm2), transcript variant 1, mRNA [NM_001081355]
A_51_P220723	-1,43	-7,73	0,0025	B230118H07 Rik	Mus musculus RIKEN cDNA B230118H07 gene (B230118H07Rik), mRNA [NM_026592]
A_52_P675617	-1,44	-6,03	0,0069	Agbl3	Mus musculus ATP/GTP binding protein-like 3 (Agbl3), transcript variant 4, mRNA [NM_001289658]
A_55_P1969152	-1,44	-3,81	0,0357	Vmn1r172	Mus musculus vomeronasal 1 receptor 172 (Vmn1r172), mRNA [NM_030735]
A_55_P2220937	-1,44	-4,28	0,0230	Otud1	Mus musculus OTU domain containing 1 (Otud1), mRNA [NM_027715]
A_51_P232921	-1,45	-3,84	0,0346	Kcnmb4os1	Mus musculus potassium large conductance calcium-activated channel, subfamily M, beta member 4, opposite strand 1 (Kcnmb4os1), long non-coding RNA [NR_028107]
A_55_P2055864	-1,45	-4,08	0,0274	Dvl2	dishevelled 2, dsh homolog (Drosophila) [Source:MGI Symbol;Acc:MGI:106613] [ENSMUST00000102575]
A_55_P2185484	-1,45	-3,69	0,0396	Zfp865	Mus musculus zinc finger protein 865 (Zfp865), transcript variant 1, mRNA [NM_001033383]
A_51_P419111	-1,46	-4,42	0,0205	Ngly1	Mus musculus N-glycanase 1 (Ngly1), mRNA [NM_021504]
A_55_P2348948	-1,46	-4,32	0,0223	4933413C19 Rik	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4933413C19 product:unclassifiable, full insert sequence. [AK016799]
A_55_P2185686	-1,46	-3,71	0,0389	Skp1a	S-phase kinase-associated protein 1A [Source:MGI Symbol;Acc:MGI:103575] [ENSMUST00000093121]
A_55_P2023021	-1,48	-8,82	0,0013	Gm6961	PREDICTED: Mus musculus predicted gene 6961 (Gm6961), transcript variant X1, ncRNA [XR_384384]
A_51_P173692	-1,49	-3,86	0,0338	Lingo4	Mus musculus leucine rich repeat and Ig domain containing 4 (Lingo4), mRNA [NM_177250]
A_55_P2074246	-1,50	-7,08	0,0038	Zfp184	Mus musculus zinc finger protein 184 (Kruppel-like) (Zfp184), mRNA [NM_183014]
A_51_P125648	-1,50	-9,04	0,0011	Vwce	Mus musculus von Willebrand factor C and EGF domains (Vwce), mRNA [NM_027913]
A_51_P183051	-1,50	-4,14	0,0260	Upb1	Mus musculus ureidopropionase, beta (Upb1), mRNA [NM_133995]
A_55_P2054817	-1,51	-4,72	0,0162	Rxfp1	Mus musculus relaxin/insulin-like family peptide receptor 1 (Rxfp1), mRNA [NM_212452]
A_51_P213691	-1,51	-7,25	0,0033	Scnn1a	Mus musculus sodium channel, nonvoltage-gated 1 alpha (Scnn1a), mRNA [NM_011324]
A_55_P2016114	-1,53	-3,66	0,0408	FasI	Mus musculus Fas ligand (TNF superfamily, member 6) (FasI), transcript variant 1, mRNA [NM_010177]
A_55_P2016782	-1,53	-6,00	0,0071	Ick	Mus musculus intestinal cell kinase (Ick), transcript variant 1, mRNA [NM_001163780]
A_55_P2181634	-1,53	-3,49	0,0480	Spef2	PREDICTED: Mus musculus sperm flagellar 2 (Spef2), transcript variant X6, mRNA [XM_006520087]
A_55_P2173516	-1,53	-4,57	0,0183	Arsi	Mus musculus arylsulfatase i (Arsi), mRNA [NM_001038499]
A_55_P2004213	-1,55	-3,58	0,0440	Gprasp2	Mus musculus G protein-coupled receptor associated sorting protein 2 (Gprasp2), transcript variant 1, mRNA [NM_001163015]
A_52_P56488	-1,56	-3,54	0,0458	Zfp558	Mus musculus zinc finger protein 558 (Zfp558), mRNA [NM_028935]
A_66_P108791	-1,56	-4,10	0,0270	Camk4	Mus musculus calcium/calmodulin-dependent protein kinase IV (Camk4), mRNA [NM_009793]
A_55_P2018904	-1,57	-8,57	0,0015	Zbtbd6	Mus musculus kelch repeat and BTB (POZ) domain containing 6 (Zbtbd6), mRNA [NM_001034882]
A_52_P374157	-1,58	-3,94	0,0314	Kbtbd8	Mus musculus kelch repeat and BTB (POZ) domain containing 8 (Kbtbd8), transcript variant 1, mRNA [NM_001008785]
A_51_P492742	-1,61	-6,98	0,0040	Bbs10	Mus musculus Bardet-Biedl syndrome 10 (human) (Bbs10), mRNA [NM_027914]
A_55_P2065651	-1,63	-4,23	0,0240	Tcra	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130026H04 product:unclassifiable, full insert sequence. [AK037556]



A_51_P419503	-1,64	-4,68	0,0166	Olfir641	Mus musculus olfactory receptor 641 (Olfir641), mRNA [NM_147072]
A_55_P1986647	-1,65	-5,43	0,0098	Podxl2	Mus musculus podocalyxin-like 2 (Podxl2), mRNA [NM_176973]
A_51_P265806	-1,65	-4,08	0,0274	Clca2	Mus musculus chloride channel calcium activated 2 (Clca2), mRNA [NM_030601]
A_66_P103027	-1,65	-3,69	0,0396	Clec9a	Mus musculus C-type lectin domain family 9, member a (Clec9a), transcript variant 1, mRNA [NM_001205363]
A_51_P222993	-1,65	-4,28	0,0230	Pnmal1	Mus musculus PNMA-like 1 (Pnmal1), mRNA [NM_001007569]
A_55_P2177290	-1,68	-4,40	0,0208	Krt77	Mus musculus keratin 77 (Krt77), mRNA [NM_001003667]
A_55_P1979196	-1,68	-4,22	0,0241	Tbata	Mus musculus thymus, brain and testes associated (Tbata), transcript variant 3, mRNA [NM_023064]
A_55_P2179151	-1,69	-4,11	0,0268	Gm10370	Mus musculus activated spleen cDNA, RIKEN full-length enriched library, clone:F830215A15 product:hypothetical protein, full insert sequence. [AK157412]
A_52_P341886	-1,69	-6,29	0,0061	Lzts1	Mus musculus leucine zipper, putative tumor suppressor 1 (Lzts1), mRNA [NM_199364]
A_55_P1994633	-1,71	-9,31	0,0010	Gm711	Mus musculus predicted gene 711 (Gm711), mRNA [NM_198628]
A_55_P2045855	-1,71	-10,07	0,0006	Zfp944	Mus musculus zinc finger protein 944 (Zfp944), mRNA [NM_176962]
A_55_P2035838	-1,72	-3,96	0,0308	Smardc2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2 [Source:MGI Symbol;Acc:MGI:1933621] [ENSMUST00000106841]
A_66_P138646	-1,73	-4,77	0,0156	Olfir775	Mus musculus olfactory receptor 775 (Olfir775), mRNA [NM_146545]
A_52_P640194	-1,73	-3,61	0,0427	Klhl32	Mus musculus kelch-like 32 (Klhl32), transcript variant 2, mRNA [NM_001033531]
A_52_P134195	-1,74	-4,78	0,0155	Ceacam10	Mus musculus carcinoembryonic antigen-related cell adhesion molecule 10 (Ceacam10), mRNA [NM_007675]
A_52_P545003	-1,74	-7,85	0,0023	Cep72	Mus musculus centrosomal protein 72 (Cep72), mRNA [NM_028959]
A_55_P2133978	-1,74	-5,80	0,0079	Slc38a8	Mus musculus solute carrier family 38, member 8 (Slc38a8), mRNA [NM_001009950]
A_55_P2097414	-1,75	-4,53	0,0189	Hs6st1	Mus musculus blastocyst blastocyst cDNA, RIKEN full-length enriched library, clone:11C0025K13 product:heparan sulfate 6-O-sulfotransferase 1, full insert sequence. [AK166962]
A_66_P140525	-1,75	-4,50	0,0192	A630076j17 Rik	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630076j17 product:unclassifiable, full insert sequence. [AK080367]
A_52_P395242	-1,75	-4,81	0,0152	Map2k6	mitogen-activated protein kinase kinase 6 [Source:MGI Symbol;Acc:MGI:1346870] [ENSMUST00000100260]
A_52_P467519	-1,75	-5,99	0,0071	A430035B10 Rik	Mus musculus adult male spinal cord cDNA, RIKEN full-length enriched library, clone:A430071G13 product:unclassifiable, full insert sequence. [AK039608]
A_51_P344499	-1,76	-4,44	0,0201	Zfp748	Mus musculus 10 days embryo whole body cDNA, RIKEN full-length enriched library, clone:2610014M12 product:hypothetical KRAB box containing protein, full insert sequence. [AK011397]
A_55_P2056310	-1,76	-4,59	0,0179	Asrgl1	Mus musculus asparaginase like 1 (Asrgl1), mRNA [NM_025610]
A_51_P471791	-1,76	-3,91	0,0323	St8sia6	Mus musculus ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 6 (St8sia6), mRNA [NM_145838]
A_55_P2063107	-1,79	-3,61	0,0428	Inadl	InaD-like (Drosophila) [Source:MGI Symbol;Acc:MGI:1277960] [ENSMUST00000107034]
A_51_P500104	-1,81	-3,78	0,0367	Slc6a19os	Mus musculus solute carrier family 6 (neurotransmitter transporter), member 19, opposite strand (Slc6a19os), mRNA [NM_027780]
A_51_P108266	-1,81	-3,59	0,0436	Actn2	Mus musculus actinin alpha 2 (Actn2), mRNA [NM_033268]
A_55_P2154580	-1,82	-5,44	0,0098	Lcmt2	Mus musculus leucine carboxyl methyltransferase 2 (Lcmt2), mRNA [NM_177846]
A_51_P160083	-1,82	-3,47	0,0487	1500035N22 Rik	PREDICTED: Mus musculus RIKEN cDNA 1500035N22 gene (1500035N22Rik), transcript variant X1, misc_RNA [XR_140695]
A_55_P2001481	-1,83	-6,63	0,0050	Pde6c	Mus musculus phosphodiesterase 6C, cGMP specific, cone, alpha prime (Pde6c), transcript variant 1, mRNA [NM_033614]
A_52_P668686	-1,84	-4,09	0,0271	A530088E08 Rik	Mus musculus RIKEN cDNA A530088E08 gene (A530088E08Rik), long non-coding RNA [NR_029458]
A_52_P441294	-1,84	-3,49	0,0477	Chl1	Mus musculus cell adhesion molecule with homology to L1CAM (Chl1), mRNA [NM_007697]
A_55_P2113905	-1,84	-4,37	0,0214	Zfp583	Mus musculus zinc finger protein 583 (Zfp583), mRNA [NM_001033249]
A_55_P2094494	-1,85	-4,11	0,0268	Tmem150b	Mus musculus transmembrane protein 150B (Tmem150b), transcript variant 1, mRNA [NM_001142792]
A_55_P2123069	-1,86	-8,91	0,0012	Cbfa2t3	Mus musculus core-binding factor, runt domain, alpha subunit 2, translocated to, 3 (human) (Cbfa2t3), transcript variant 2, mRNA [NM_001109873]
A_51_P376741	-1,87	-4,96	0,0137	4933402j07Rik	Mus musculus RIKEN cDNA 4933402j07 gene (4933402j07Rik), mRNA [NM_177901]
A_52_P436447	-1,87	-5,19	0,0114	Slc25a35	Mus musculus solute carrier family 25, member 35 (Slc25a35), mRNA [NM_028048]
A_55_P2170589	-1,87	-3,75	0,0377	Chchd2	Mus musculus coiled-coil-helix-coiled-coil-helix domain containing 2 (Chchd2), mRNA [NM_024166]
A_55_P2074883	-1,88	-5,58	0,0090	2310016D23 Rik	PREDICTED: Mus musculus RIKEN cDNA 2310016D23 gene (2310016D23Rik), ncRNA [XR_373437]
A_55_P1960906	-1,88	-4,20	0,0248	Tgfr1	transforming growth factor, beta receptor 1 [Source:MGI Symbol;Acc:MGI:98728] [ENSMUST00000123962]
A_51_P225573	-1,89	-3,70	0,0391	Olfir981	Mus musculus olfactory receptor 981 (Olfir981), mRNA [NM_146286]
A_52_P172014	-1,90	-3,83	0,0347	Ramp1	Mus musculus receptor (calcitonin) activity modifying protein 1 (Ramp1), transcript variant 1, mRNA [NM_016894]
A_52_P641716	-1,90	-3,99	0,0298	Themis	Mus musculus thymocyte selection associated (Themis), mRNA [NM_178666]
A_51_P505967	-1,90	-4,28	0,0231	Spag6	Mus musculus sperm associated antigen 6 (Spag6), mRNA [NM_015773]

A_55_P1974522	-1,91	-4,18	0,0251	A530099J19 Rik	Mus musculus RIKEN cDNA A530099J19 gene (A530099J19Rik), mRNA [NM_175688]
A_52_P106285	-1,91	-4,80	0,0152	Rnf157	Mus musculus ring finger protein 157 (Rnf157), mRNA [NM_027258]
A_51_P429212	-1,92	-3,50	0,0473	Npl	Mus musculus N-acetylneuraminate pyruvate lyase (Npl), mRNA [NM_028749]
A_55_P1977938	-1,92	-5,00	0,0132	Fcgbp	Fc fragment of IgG binding protein [Source:MGI Symbol;Acc:MGI:2444336] [ENSIMUST00000140004]
A_55_P1957430	-1,93	-4,37	0,0213	LOC102638587	PREDICTED: Mus musculus uncharacterized LOC102638587 (LOC102638587), transcript variant X1, ncRNA [XR_383713]
A_55_P2140764	-1,93	-4,72	0,0161	Ssu72	Ssu72 RNA polymerase II CTD phosphatase homolog (yeast) [Source:MGI Symbol;Acc:MGI:1916241] [ENSIMUST00000105595]
A_51_P145322	-1,93	-4,99	0,0133	Pax1	Mus musculus paired box 1 (Pax1), mRNA [NM_008780]
A_55_P1991668	-1,94	-3,57	0,0444	A830010M20 Rik	Mus musculus RIKEN cDNA A830010M20 gene (A830010M20Rik), transcript variant 1, mRNA [NM_001007574]
A_55_P2170911	-1,94	-4,41	0,0207	Gm10366	Mus musculus RCB-1283 B16 melanoma cDNA, RIKEN full-length enriched library, clone:G430107107 product:hypothetical Regulator of chromosome condensation, RCC1 containing protein, full insert sequence. [AK144204]
A_55_P2241663	-1,95	-4,08	0,0275	5830432E09 Rik	Mus musculus B16 F10Y cells cDNA, RIKEN full-length enriched library, clone:G370003E19 product:unclassifiable, full insert sequence. [AK148045]
A_51_P147123	-1,96	-3,71	0,0389	Ntn1	Mus musculus netrin 1 (Ntn1), mRNA [NM_008744]
A_51_P316201	-1,96	-4,73	0,0161	Gm5134	Mus musculus predicted gene 5134 (Gm5134), mRNA [NM_198635]
A_52_P612209	-1,97	-3,88	0,0332	Wtap	Mus musculus Wilms tumour 1-associating protein (Wtap), transcript variant 2, mRNA [NM_175394]
A_52_P521324	-1,97	-3,85	0,0342	A930024E05 Rik	Mus musculus RIKEN cDNA A930024E05 gene (A930024E05Rik), long non-coding RNA [NR_045820]
A_51_P456465	-1,98	-4,28	0,0230	Cldn10	Mus musculus claudin 10 (Cldn10), transcript variant b, mRNA [NM_021386]
A_55_P2061914	-1,98	-3,49	0,0478	Gm9960	Mus musculus 0 day neonate thymus cDNA, RIKEN full-length enriched library, clone:A430079P20 product:hypothetical protein, full insert sequence. [AK040234]
A_51_P301636	-1,98	-4,49	0,0195	Kazn	Mus musculus kazrin, periplakin interacting protein (Kazn), transcript variant 3, mRNA [NM_001109685]
A_55_P2208041	-1,98	-4,31	0,0226	Stra8	Mus musculus stimulated by retinoic acid gene 8 (Stra8), mRNA [NM_009292]
A_55_P1975355	-1,99	-4,24	0,0239	C030010C08 Rik	Mus musculus adult male olfactory brain cDNA, RIKEN full-length enriched library, clone:6430550P15 product:unclassifiable, full insert sequence. [AK135037]
A_51_P514584	-1,99	-4,47	0,0198	Tbata	Mus musculus thymus, brain and testes associated (Tbata), transcript variant 4, mRNA [NM_001017441]
A_51_P167660	-2,01	-5,63	0,0088	Atad3aos	Mus musculus ATPase family, AAA domain containing 3A, opposite strand (Atad3aos), transcript variant 1, long non-coding RNA [NR_027971]
A_55_P2138217	-2,02	-4,85	0,0147	Efcab5	Mus musculus EF-hand calcium binding domain 5 (Efcab5), mRNA [NM_176965]
A_55_P2130032	-2,02	-4,25	0,0237	Zfp599	Mus musculus zinc finger protein 599 (Zfp599), mRNA [NM_181419]
A_66_P100218	-2,02	-3,79	0,0361	Hcn3	Mus musculus hyperpolarization-activated, cyclic nucleotide-gated K+ 3 (Hcn3), mRNA [NM_008227]
A_52_P66130	-2,04	-5,27	0,0108	Myo5b	Mus musculus myosin VB (Myo5b), mRNA [NM_201600]
A_55_P1972648	-2,05	-3,75	0,0376	Fam109b	Mus musculus family with sequence similarity 109, member B (Fam109b), mRNA [NM_177391]
A_55_P2061555	-2,07	-3,50	0,0477	Olfir95	Mus musculus olfactory receptor 95 (Olfir95), mRNA [NM_146513]
A_52_P144037	-2,07	-4,06	0,0280	Gcc1	Mus musculus golgi coiled coil 1 (Gcc1), mRNA [NM_028900]
A_55_P2007339	-2,08	-3,69	0,0395	Gm16489	Mus musculus predicted gene, ENSMUSG00000058380, mRNA (cDNA clone IMAGE:4190185), partial cds. [BC026389]
A_55_P1954196	-2,08	-4,17	0,0252	C1ql3	Mus musculus C1q-like 3 (C1ql3), mRNA [NM_153155]
A_52_P212756	-2,09	-3,53	0,0461	Tor1aip2	Mus musculus torsin A interacting protein 2 (Tor1aip2), transcript variant 5, mRNA [NM_172843]
A_52_P124734	-2,09	-4,24	0,0238	Cybrd1	Mus musculus cytochrome b reductase 1 (Cybrd1), mRNA [NM_028593]
A_52_P388359	-2,09	-4,80	0,0153	Prdx6	Mus musculus peroxiredoxin 6 (Prdx6), mRNA [NM_007453]
A_55_P1957997	-2,09	-4,83	0,0149	LOC100047123	PREDICTED: Mus musculus uncharacterized LOC100047123 (LOC100047123), misc RNA [XR_384809]
A_55_P2139942	-2,09	-4,37	0,0213	Calca	Mus musculus calcitonin/calcitonin-related polypeptide, alpha (Calca), transcript variant 1, mRNA [NM_007587]
A_55_P2174661	-2,10	-5,31	0,0106	Tmsb15l	Mus musculus thymosin beta 15b like (Tmsb15l), mRNA [NM_207267]
A_52_P37757	-2,11	-4,42	0,0205	Eps8l1	Mus musculus EPS8-like 1 (Eps8l1), transcript variant 2, mRNA [NM_026146]
A_52_P251623	-2,11	-5,37	0,0102	Fam222a	Mus musculus family with sequence similarity 222, member A (Fam222a), mRNA [NM_001004180]
A_52_P227267	-2,11	-3,47	0,0489	Atp1a2	Mus musculus ATPase, Na+/K+ transporting, alpha 2 polypeptide (Atp1a2), mRNA [NM_178405]
A_55_P2140348	-2,11	-3,93	0,0316	Igh-VJ558	Mus musculus immunoglobulin heavy chain complex, mRNA (cDNA clone MGC:118142 IMAGE:6477061), complete cds. [BC103785]
A_51_P201581	-2,12	-3,50	0,0475	Rln3	Mus musculus relaxin 3 (Rln3), mRNA [NM_173184]
A_52_P23562	-2,12	-4,95	0,0138	Gm839	Mus musculus predicted gene 839 (Gm839), long non-coding RNA [NR_033190]
A_55_P2150113	-2,13	-4,33	0,0222	Gm10641	Mus musculus 16 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A130017F12 product:hypothetical protein, full insert sequence. [AK137815]
A_52_P265937	-2,14	-3,48	0,0482	Tagln3	Mus musculus transgelin 3 (Tagln3), mRNA [NM_019754]



A_55_P2150831	-2,17	-4,29	0,0229	Cdh4	Mus musculus cadherin 4 (Cdh4), mRNA [NM_009867]
A_55_P2250943	-2,18	-4,40	0,0208	1700024h08rik	PREDICTED: Mus musculus RIKEN cDNA 1700024H08 gene (1700024h08rik), misc. RNA [XR_382126]
A_55_P2167279	-2,19	-4,42	0,0204	4931429P17Rik	Mus musculus RIKEN cDNA 4931429P17 gene (4931429P17Rik), long non-coding RNA [NR_038004]
A_52_P165705	-2,20	-3,96	0,0307	Cd1d2	Mus musculus CD1d2 antigen (Cd1d2), transcript variant 1, mRNA [NM_007640]
A_52_P123655	-2,21	-8,02	0,0021	A630023P12Rik	Mus musculus RIKEN cDNA A630023P12 gene (A630023P12Rik), long non-coding RNA [NR_102290]
A_55_P1966755	-2,21	-3,80	0,0358	Cyp2r1	Mus musculus cytochrome P450, family 2, subfamily r, polypeptide 1 (Cyp2r1), transcript variant 1, mRNA [NM_177382]
A_52_P131353	-2,22	-5,01	0,0131	Camk1d	Mus musculus calcium/calmodulin-dependent protein kinase ID (Camk1d), transcript variant 1, mRNA [NM_177343]
A_55_P2028837	-2,24	-3,48	0,0484	Tspan2	Mus musculus tetraspanin 2 (Tspan2), transcript variant 1, mRNA [NM_027533]
A_55_P2005956	-2,25	-7,95	0,0022	Egfbp2	Mus musculus epidermal growth factor binding protein type B (Egfbp2), mRNA [NM_010115]
A_55_P2009077	-2,25	-5,29	0,0107	Sybu	Mus musculus syntabulin (syntaxin-interacting) (Sybu), transcript variant b, mRNA [NM_001032727]
A_55_P2078247	-2,25	-4,27	0,0233	Ppp1r10	Mus musculus 13 days embryo male testis cDNA, RIKEN full-length enriched library, clone:6030473A16 product:unclassifiable, full insert sequence. [AK031654]
A_52_P297176	-2,26	-5,56	0,0091	E230001N04Rik	Mus musculus 3 days neonate thymus cDNA, RIKEN full-length enriched library, clone:A630007D12 product:hypothetical protein, full insert sequence. [AK153588]
A_66_P135003	-2,27	-4,87	0,0145	Gm5531	Mus musculus predicted gene 5531 (Gm5531), mRNA [NM_001008426]
A_51_P214470	-2,28	-3,85	0,0341	Tdrp	Mus musculus testis development related protein (Tdrp), mRNA [NM_173744]
A_51_P480190	-2,32	-4,19	0,0249	Spaca1	Mus musculus sperm acrosome associated 1 (Spaca1), transcript variant 1, mRNA [NM_026293]
A_55_P2177633	-2,34	-4,55	0,0186	Zfyve28	zinc finger, FYVE domain containing 28 [Source:MGI Symbol;Acc:MGI:2684992] [ENSMUST0000094868]
A_51_P363871	-2,36	-3,71	0,0389	37316	Mus musculus membrane-associated ring finger (C3HC4) 2 (March2), transcript variant 1, mRNA [NM_145486]
A_55_P1976237	-2,37	-4,99	0,0133	Dnajb3	Mus musculus Dnaj (Hsp40) homolog, subfamily B, member 3 (Dnajb3), mRNA [NM_008299]
A_52_P241544	-2,37	-3,95	0,0311	Supt7l	Mus musculus suppressor of Ty 7-like (Supt7l), mRNA [NM_028150]
A_55_P2018651	-2,38	-3,66	0,0407	2010015L04Rik	Mus musculus RIKEN cDNA 2010015L04 gene (2010015L04Rik), transcript variant 1, mRNA [NM_177674]
A_52_P70796	-2,38	-5,35	0,0104	Cxcr5	Mus musculus chemokine (C-X-C motif) receptor 5 (Cxcr5), mRNA [NM_007551]
A_55_P2038422	-2,41	-3,55	0,0452	Adams17	Mus musculus a disintegrin-like and metallopeptidase (reprolysin type) with thrombospondin type 1 motif, 17 (Adams17), mRNA [NM_001033877]
A_55_P2155848	-2,41	-5,46	0,0096	Gm14207	Mus musculus predicted gene 14207 (Gm14207), long non-coding RNA [NR_030683]
A_55_P2077510	-2,43	-4,21	0,0243	Zfp583	Mus musculus zinc finger protein 583 (Zfp583), mRNA [NM_001033249]
A_51_P446085	-2,43	-5,77	0,0082	Map10	Mus musculus microtubule-associated protein 10 (Map10), mRNA [NM_028908]
A_55_P2123993	-2,45	-5,26	0,0109	Arid3b	Mus musculus AT rich interactive domain 3B (BRIGHT-like) (Arid3b), mRNA [NM_019689]
A_55_P1962986	-2,46	-4,55	0,0185	Sub1	SUB1 homolog (S. cerevisiae) [Source:MGI Symbol;Acc:MGI:104811] [ENSMUST00000110504]
A_55_P2091556	-2,46	-4,69	0,0165	Gm10548	Mus musculus adult male brain cDNA, RIKEN full-length enriched library, clone:3526401A09 product:hypothetical protein, full insert sequence. [AK132217]
A_55_P1954231	-2,47	-4,34	0,0218	Lrtm2	Mus musculus leucine-rich repeats and transmembrane domains 2 (Lrtm2), transcript variant 1, mRNA [NM_172492]
A_52_P295104	-2,54	-3,87	0,0336	Smim5	Mus musculus small integral membrane protein 5 (Smim5), mRNA [NM_183259]
A_52_P295755	-2,56	-8,55	0,0015	A830005F24Rik	PREDICTED: Mus musculus RIKEN cDNA A830005F24 gene (A830005F24Rik), mRNA [XM_006543054]
A_66_P138315	-2,56	-6,22	0,0063	Gm9891	Mus musculus adult male testis cDNA, RIKEN full-length enriched library, clone:4930419B13 product:hypothetical protein, full insert sequence. [AK029639]
A_51_P336169	-2,57	-6,28	0,0061	Cd46	Mus musculus CD46 antigen, complement regulatory protein (Cd46), mRNA [NM_010778]
A_52_P99810	-2,58	-5,37	0,0102	Cx3cr1	Mus musculus chemokine (C-X3-C motif) receptor 1 (Cx3cr1), mRNA [NM_009987]
A_55_P1978028	-2,58	-6,22	0,0062	Sez6	Mus musculus seizure related gene 6 (Sez6), transcript variant 2, mRNA [NM_001291225]
A_52_P500979	-2,61	-4,11	0,0268	Pcsk1	Mus musculus proprotein convertase subtilisin/kexin type 1 (Pcsk1), mRNA [NM_013628]
A_51_P237668	-2,70	-3,94	0,0313	Bex2	Mus musculus brain expressed X-linked 2 (Bex2), mRNA [NM_009749]
A_55_P1964004	-2,85	-5,47	0,0096	LOC102634968	PREDICTED: Mus musculus uncharacterized LOC102634968 (LOC102634968), ncRNA [XR_376983]
A_66_P109183	-2,87	-4,55	0,0185	Apold1	Mus musculus apolipoprotein L domain containing 1 (Apold1), mRNA [NM_001109914]
A_55_P2118896	-2,93	-5,60	0,0089	Zfp882	Mus musculus zinc finger protein 882 (Zfp882), mRNA [NM_001166645]
A_51_P312485	-2,94	-5,96	0,0072	Fpr1	Mus musculus formyl peptide receptor 1 (Fpr1), mRNA [NM_013521]
A_52_P5905	-3,28	-5,60	0,0089	4933407L21Rik	Mus musculus RIKEN cDNA 4933407L21 gene (4933407L21Rik), long non-coding RNA [NR_037692]